

## Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	394.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	153.8V x 153.8H
	At 50% of Imax	93.8V x 96.0H
	At 90% of Imax	52.3V x 55.8H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	957.7 lumens per klm.
	To 50% of Imax	629.8 lumens per klm.
	To 90% of Imax	238.9 lumens per klm.

Upward LOR	1.8 %
Downward LOR	98.2 %

Luminaire Efficiency(Light Output Ratio)	100.0 %
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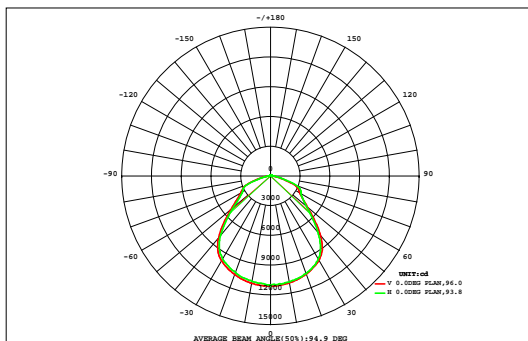
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

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**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:144.81lm/W	
MODEL	ELP-200-57K-110D	Imax(cd)	11142
NOMINAL POWER(W)	200	AVAILABILITY(%)	95.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	27022
NOMINAL FLUX(lm)	28228.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	28228
TEST VOLTAGE(V)	220	θ @50%(H,V)	96,94DEG

VERTICAL( DEG )	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.44	1.51	2.95	4.72	6.73	8.91	10.8	12.0	12.6	12.3	11.2	9.70	7.84	5.89	4.18	2.67	1.41	0.43	116	0.00
90	0.44	1.51	2.95	4.72	6.73	8.91	10.8	12.0	12.6	12.3	11.2	9.70	7.84	5.89	4.18	2.67	1.41	0.43	116	0.00
80	0.53	2.37	6.10	12.2	20.2	29.4	38.7	45.6	49.5	48.5	42.8	35.1	26.3	17.8	10.8	5.46	2.18	0.50	394	257
70	0.65	3.70	11.4	24.9	45.5	66.9	82.7	93.0	98.8	99.3	93.8	81.6	63.0	40.7	22.0	10.2	3.38	0.60	842	806
60	0.77	5.43	18.2	43.2	67.8	85.7	102	115	122	122	115	103	87.6	67.5	39.8	16.2	4.93	0.71	1116	1098
50	0.91	7.29	26.7	54.9	77.8	104	136	165	181	178	158	130	102	78.5	54.8	24.3	6.59	0.83	1486	1474
40	1.05	9.14	33.6	60.3	91.4	138	196	242	263	259	231	183	129	88.4	61.5	32.2	8.25	0.95	2028	2019
30	1.16	10.9	37.5	65.4	110	181	248	289	306	303	282	237	166	102	65.5	37.2	9.85	1.06	2452	2445
20	1.24	12.2	39.4	70.3	129	212	273	307	323	320	302	264	197	117	68.5	39.4	11.1	1.13	2688	2682
10	1.29	12.9	40.0	73.5	142	227	282	316	332	328	310	276	218	132	70.4	39.8	11.8	1.17	2812	2806
0	1.28	12.8	40.1	73.2	140	223	278	311	328	330	314	279	222	134	70.1	39.4	11.8	1.16	2810	2804
-10	1.24	12.0	39.4	69.6	124	206	267	302	320	321	304	270	208	123	67.2	38.4	11.0	1.12	2685	2678
-20	1.15	10.5	37.2	65.2	107	179	246	285	303	304	286	246	177	104	62.5	36.0	9.67	1.04	2461	2453
-30	1.03	8.70	32.4	60.2	89.2	139	200	246	269	268	244	196	134	86.1	57.5	31.3	8.02	0.93	2071	2061
-40	0.90	6.88	24.7	53.5	76.2	103	138	172	190	189	168	132	98.1	73.1	51.8	23.5	6.30	0.81	1508	1495
-50	0.76	5.12	16.4	39.7	65.1	83.3	99.0	113	119	118	109	94.3	79.9	63.2	37.8	15.3	4.60	0.70	1063	1043
-60	0.64	3.51	10.2	21.9	40.3	60.6	76.5	87.0	91.0	89.7	83.9	73.4	57.9	37.8	20.1	9.20	3.12	0.59	767	725
-70	0.53	2.29	5.48	10.6	17.3	24.7	32.1	38.2	41.3	40.8	36.5	29.8	22.5	15.4	9.31	4.83	2.04	0.49	334	176
-80	0.45	1.51	2.76	4.21	5.82	7.34	8.65	9.59	9.90	9.69	8.99	7.84	6.51	5.12	3.72	2.46	1.37	0.43	96.4	0.00
-90	0.45	1.51	2.76	4.21	5.82	7.34	8.65	9.59	9.90	9.69	8.99	7.84	6.51	5.12	3.72	2.46	1.37	0.43	96.4	0.00
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL( DEG )	20	30	40	50	60	70	80	90			
Φ t	16.0	129	425	807	1356	2079	2715	3146	3359	3341	3100	2648	2002	1293	777	408	117	14.7	27732	---
Φ a	0.00	74.9	382	767	1316	2040	2675	3107	3320	3301	3060	2608	1961	1251	735	363	61.5	0.00	---	27022

one-half-peak spread: U:38.6,D:37.6 , L:45.9,R:47.5

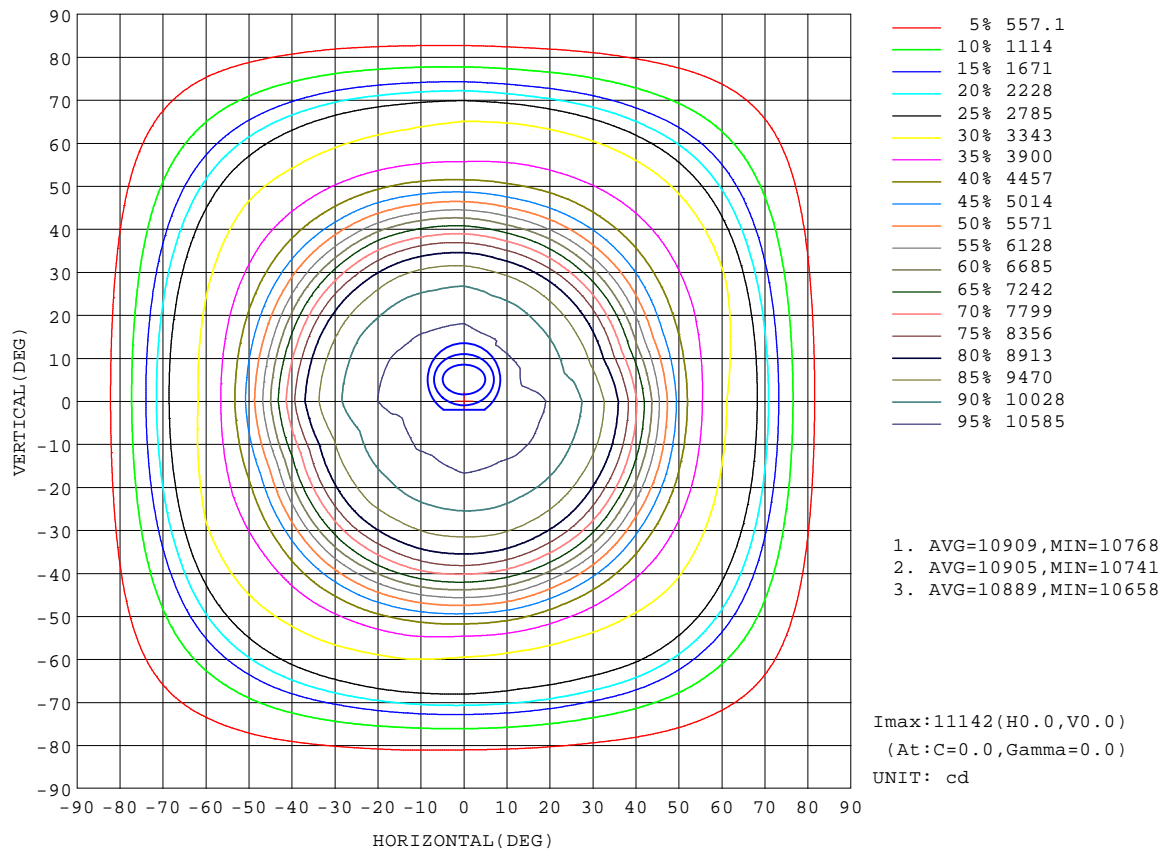
NEMA Beam Type: Type 7

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

## ISOCANDELA DIAGRAM

Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

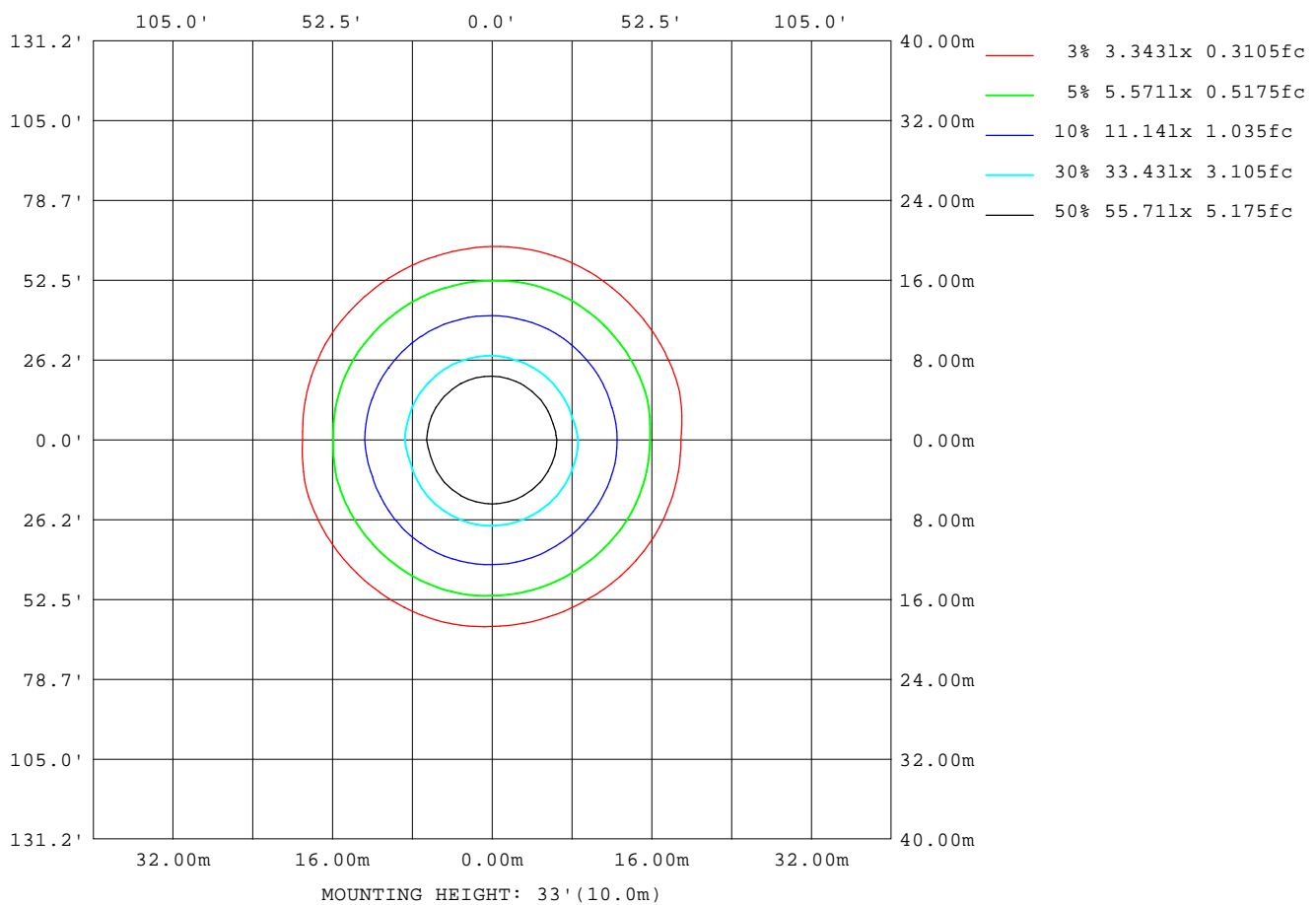


**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

**ISOLUX DIAGRAM**

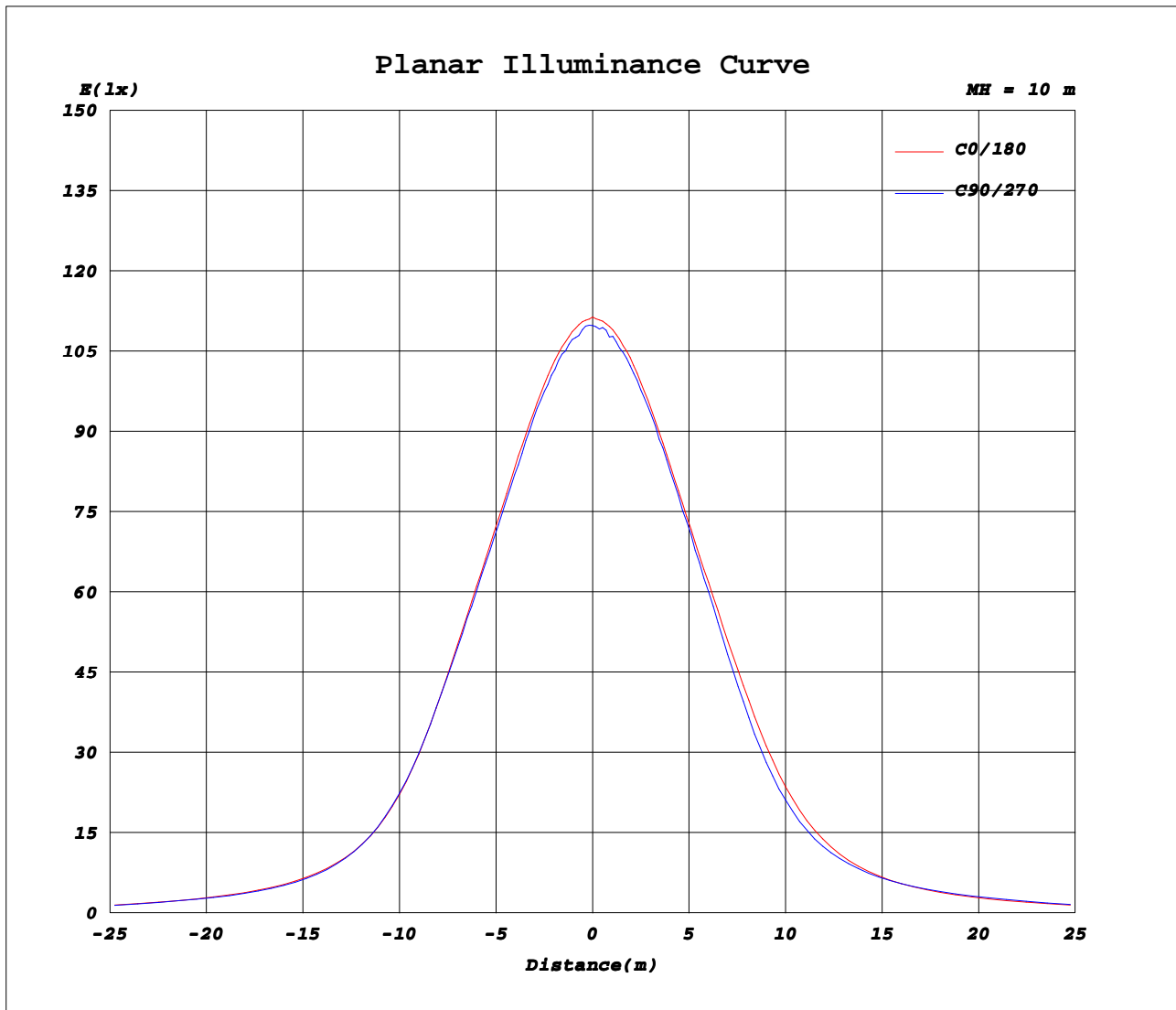
Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

## Planar Illuminance Curve

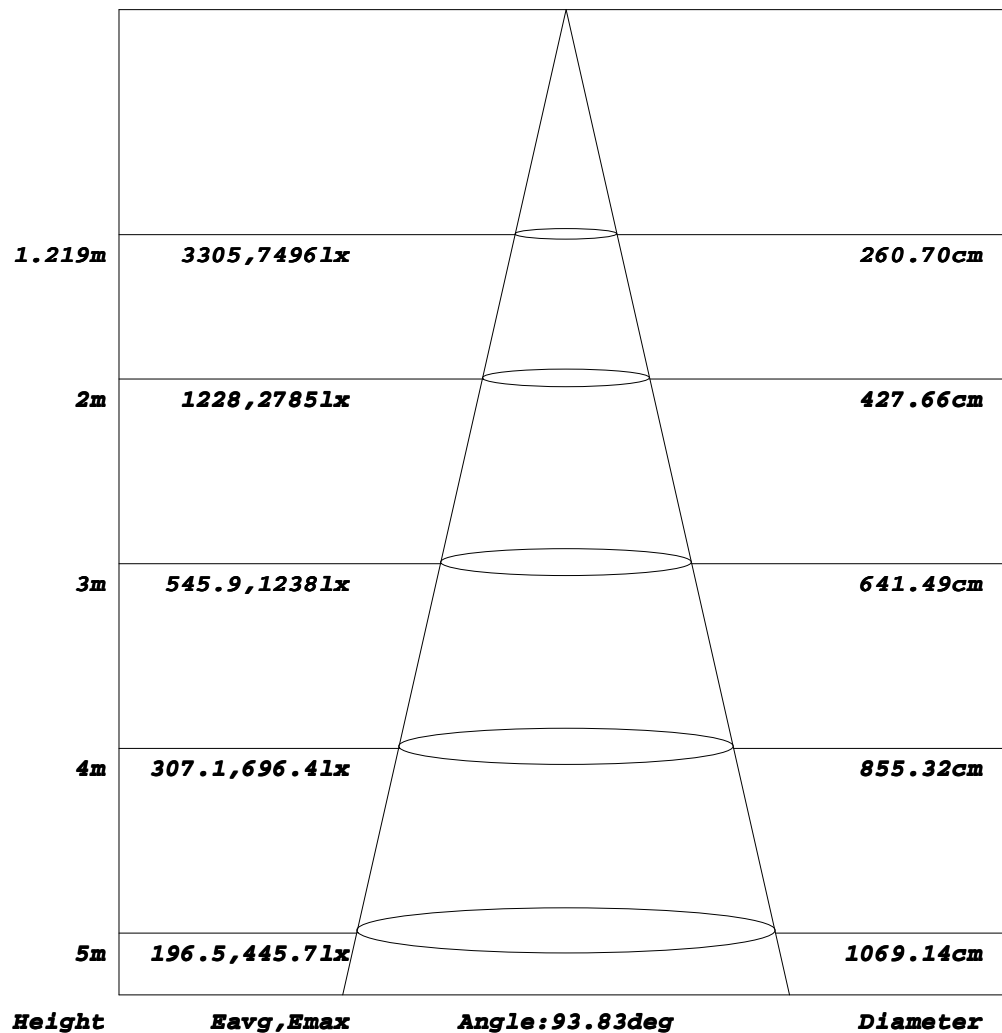


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:HSO  
Test Date:07 June 2023

V(B) Range:-180 - 180DEG  
V(B) Interval: 0.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351  
Humidity:65.0%  
Test Distance:8.100m [K=1.0000]  
Remarks: ELP-200-57K-110D

**AAI Figure**

Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

**Flux out:17751 lm**


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**H( $\beta$ ) Range: -90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: HSO**  
**Test Date: 07 June 2023**

**V(B) Range: -180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity: 65.0%**  
**Test Distance: 8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: #10cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	15.3	8.09	5.35	4.58	4.89	5.46	5.85	6.47	7.12	7.75	8.47	9.08	9.61	10.2	10.8	11.4	11.9	12.4	12.2
-170	15.3	8.26	5.50	4.83	5.15	5.79	6.27	6.96	7.68	8.36	9.11	9.78	10.2	10.6	11.0	11.3	11.6	11.9	12.0
-160	15.3	8.63	5.66	5.09	5.36	6.02	6.56	7.27	7.95	8.44	9.00	9.52	9.91	10.3	10.6	10.8	11.0	11.2	11.3
-150	15.3	9.21	5.83	5.62	5.54	6.11	6.73	7.08	7.55	7.98	8.42	8.90	9.28	9.61	9.90	10.1	10.3	10.4	10.5
-140	15.3	10.0	6.05	6.03	5.71	6.03	6.38	6.68	7.00	7.43	7.78	8.15	8.49	8.76	8.95	9.18	9.33	9.47	9.55
-130	15.3	11.1	6.84	6.29	6.27	5.89	6.02	6.30	6.55	6.78	7.10	7.31	7.54	7.76	7.94	8.13	8.24	8.33	8.37
-120	15.3	12.2	8.66	6.63	6.52	6.35	5.94	5.96	6.05	6.17	6.30	6.49	6.68	6.81	6.96	7.06	7.15	7.21	7.24
-110	15.3	13.1	11.1	8.87	7.10	6.60	6.47	6.40	6.24	5.92	5.90	5.92	5.93	5.97	6.02	6.09	6.16	6.20	6.24
-100	15.3	14.1	13.4	12.7	11.3	9.93	8.87	7.97	7.27	6.78	6.64	6.55	6.52	6.50	6.46	6.43	6.41	6.39	6.37
-90	15.3	15.5	15.8	16.1	15.9	15.7	15.5	15.4	15.3	15.1	14.9	14.6	14.4	14.3	14.2	14.1	14.1	14.1	14.0
-80	15.3	17.5	20.0	22.9	26.0	29.2	32.7	36.8	41.3	45.8	50.1	53.9	57.3	60.4	63.2	65.3	66.2	66.3	65.7
-70	15.3	19.8	26.4	34.2	45.0	57.7	72.4	88.0	104	120	138	157	176	195	213	227	236	241	241
-60	15.3	22.6	33.8	51.4	73.4	99.1	128	168	217	261	291	307	317	323	330	333	334	333	330
-50	15.3	25.5	43.5	71.4	106	150	218	279	314	331	346	363	384	411	436	459	477	485	486
-40	15.3	28.5	53.7	92.9	142	221	294	330	352	377	416	473	541	611	671	725	762	782	786
-30	15.3	30.9	62.9	112	187	278	330	358	391	446	531	640	744	832	891	928	949	963	969
-20	15.3	32.7	70.6	129	223	304	343	382	438	531	657	783	886	946	981	1006	1023	1036	1036
-10	15.3	33.9	75.9	141	247	312	350	403	489	612	751	868	946	990	1023	1047	1061	1072	1081
0	15.3	34.3	77.9	147	255	311	349	414	522	668	818	926	989	1029	1059	1083	1100	1109	1114
10	15.3	33.9	76.5	143	250	311	348	406	499	630	775	897	972	1015	1045	1067	1079	1088	1085
20	15.3	32.9	71.8	132	231	305	339	383	452	551	677	803	902	964	998	1022	1039	1046	1048
30	15.3	31.1	64.3	117	197	285	324	356	399	460	541	641	740	825	889	931	954	962	963
40	15.3	28.6	55.1	97.4	153	237	302	331	357	386	424	473	531	592	653	698	727	743	744
50	15.3	25.6	44.7	75.4	115	166	238	294	322	338	354	371	392	414	434	452	464	472	471
60	15.3	22.7	34.7	54.0	79.7	110	143	191	243	283	307	320	329	337	343	349	354	357	358
70	15.3	19.8	26.7	35.6	48.6	64.4	82.2	101	119	138	161	186	212	232	247	258	268	274	276
80	15.3	17.4	20.0	23.2	27.3	31.9	36.8	42.4	48.4	54.6	60.5	66.2	71.7	75.6	78.9	81.3	82.9	83.5	83.3
90	15.3	15.3	15.4	15.4	15.6	15.8	16.0	16.0	16.0	16.1	16.2	16.3	16.4	16.3	16.1	16.0	15.9	15.9	15.9
100	15.3	13.9	12.9	11.9	10.8	9.62	8.56	7.68	6.86	6.11	5.90	5.73	5.70	5.63	5.59	5.55	5.51	5.47	5.44
110	15.3	12.9	10.6	8.05	6.16	5.54	5.42	5.30	5.14	4.83	4.66	4.63	4.65	4.67	4.70	4.74	4.80	4.85	4.89
120	15.3	11.9	8.16	5.65	5.39	5.19	4.70	4.58	4.66	4.75	4.82	5.02	5.16	5.28	5.43	5.55	5.65	5.71	5.75
130	15.3	10.9	6.32	5.39	5.07	4.58	4.66	4.89	5.14	5.40	5.73	5.93	6.18	6.41	6.61	6.77	6.88	6.97	7.01
140	15.3	9.85	5.56	5.25	4.58	4.68	5.03	5.36	5.67	6.08	6.47	6.84	7.20	7.49	7.71	7.95	8.10	8.22	8.26
150	15.3	9.08	5.44	5.01	4.62	4.94	5.42	5.75	6.24	6.72	7.19	7.69	8.13	8.48	8.80	9.06	9.24	9.37	9.43
160	15.3	8.54	5.39	4.67	4.73	5.20	5.59	6.11	6.71	7.24	7.83	8.45	8.92	9.30	9.65	9.98	10.3	10.5	10.6
170	15.3	8.21	5.36	4.60	4.83	5.38	5.77	6.36	6.99	7.58	8.29	8.88	9.33	9.86	10.4	10.9	11.2	11.6	11.6
180	15.3	8.09	5.35	4.58	4.89	5.46	5.85	6.47	7.12	7.75	8.47	9.08	9.61	10.2	10.8	11.4	11.9	12.4	12.2

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:HSO

Test Date:07 June 2023

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351

Humidity:65.0%

Test Distance:8.100m [K=1.0000]

Remarks: ELP-200-57K-110D

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.0V I:0.9098A P:194.9W PF:0.9721 Lamp Flux:28228.2x1 lm		
NAME: ELP-200-57K-110D	TYPE:LED	WEIGHT:
SPEC.:ELP-200-57K-110D	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: #10cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	12.5	12.3	11.9	11.5	11.1	10.6	10.2	9.71	9.15	8.60	8.00	7.42	7.03	6.45	6.04	6.70	8.90	15.2	
-170	12.0	11.8	11.5	11.3	10.9	10.5	10.2	9.61	9.05	8.50	7.92	7.35	6.95	6.39	6.04	6.70	8.99	15.2	
-160	11.3	11.1	11.0	10.8	10.5	10.2	9.81	9.27	8.75	8.25	7.68	7.18	6.78	6.28	6.05	6.74	9.29	15.2	
-150	10.5	10.4	10.2	10.1	9.87	9.57	9.14	8.70	8.27	7.82	7.36	7.00	6.52	6.14	6.33	6.79	9.78	15.2	
-140	9.52	9.45	9.34	9.17	8.96	8.72	8.37	8.03	7.67	7.27	6.94	6.62	6.24	6.04	6.52	6.86	10.5	15.2	
-130	8.37	8.33	8.24	8.13	7.96	7.75	7.53	7.29	6.97	6.77	6.49	6.23	6.06	6.36	6.69	7.34	11.3	15.2	
-120	7.25	7.22	7.17	7.08	7.03	6.88	6.70	6.52	6.37	6.23	6.10	6.03	6.42	6.64	6.86	8.77	12.4	15.2	
-110	6.22	6.19	6.15	6.10	6.07	6.04	6.03	6.00	6.01	6.20	6.44	6.58	6.73	7.06	8.56	10.9	13.3	15.2	
-100	6.40	6.42	6.45	6.48	6.52	6.59	6.66	6.72	6.77	6.98	7.51	8.38	9.42	10.6	11.9	13.2	14.2	15.2	
-90	13.9	13.8	13.6	13.7	13.7	13.8	13.9	13.9	14.0	14.2	14.4	14.6	14.6	14.7	14.7	14.9	15.0	15.2	
-80	64.9	63.5	61.4	58.6	55.2	51.4	47.7	43.8	39.8	36.0	32.3	28.7	25.8	22.9	20.5	18.4	16.7	15.2	
-70	238	230	219	202	182	162	144	127	110	94.2	78.9	63.8	51.0	39.5	31.0	23.7	18.6	15.2	
-60	328	324	319	314	310	305	297	284	256	203	153	119	91.3	65.8	45.5	30.8	20.8	15.2	
-50	481	467	445	417	390	365	345	331	320	305	274	205	141	98.5	64.2	38.9	23.3	15.2	
-40	777	753	711	655	588	517	451	399	362	337	317	287	211	134	84.5	48.2	25.8	15.2	
-30	962	950	926	888	825	735	624	514	433	378	340	315	273	173	103	56.7	28.1	15.2	
-20	1035	1028	1013	988	950	888	789	652	523	428	366	328	297	211	119	63.6	29.8	15.2	
-10	1077	1071	1058	1034	1002	957	881	751	598	470	388	338	307	236	129	68.2	30.9	15.2	
0	1106	1095	1078	1053	1021	978	911	787	628	488	396	342	310	244	133	70.0	31.3	15.2	
10	1073	1064	1046	1021	986	932	839	711	573	464	392	348	313	236	130	68.9	31.0	15.2	
20	1036	1024	1003	974	928	850	737	610	501	429	380	346	306	212	121	64.8	30.0	15.2	
30	955	935	903	850	774	681	584	499	435	391	364	337	277	177	105	58.4	28.4	15.2	
40	729	699	659	609	551	498	450	413	384	362	340	299	215	137	88.0	50.1	26.1	15.2	
50	466	455	442	427	408	391	375	362	345	326	283	214	148	103	68.4	40.7	23.7	15.2	
60	360	361	360	354	347	337	324	302	266	217	168	128	98.5	72.2	49.4	31.8	21.1	15.2	
70	272	263	249	231	208	185	163	142	123	105	89.6	73.5	57.6	44.0	32.7	24.6	18.7	15.2	
80	82.0	79.7	76.6	73.0	68.8	64.1	58.6	53.1	47.5	42.3	37.3	32.9	28.8	24.9	21.5	18.8	16.8	15.2	
90	15.6	15.4	15.2	15.1	15.0	14.9	14.8	14.7	14.6	14.6	14.7	14.8	14.8	14.7	14.7	14.9	15.0	15.2	
100	5.44	5.44	5.46	5.47	5.49	5.53	5.55	5.62	5.73	6.26	7.00	7.90	8.97	10.3	11.5	12.8	14.0	15.2	
110	4.85	4.80	4.77	4.74	4.69	4.65	4.61	4.55	4.58	4.94	5.17	5.27	5.40	5.95	7.84	10.6	13.2	15.2	
120	5.74	5.69	5.62	5.50	5.38	5.26	5.10	4.91	4.80	4.69	4.52	4.56	5.03	5.28	5.73	8.34	12.2	15.2	
130	6.98	6.90	6.81	6.66	6.48	6.28	6.04	5.79	5.46	5.20	4.91	4.66	4.53	4.92	5.63	6.80	11.2	15.2	
140	8.22	8.12	7.97	7.78	7.52	7.24	6.88	6.53	6.14	5.71	5.39	5.03	4.68	4.73	5.61	6.30	10.3	15.2	
150	9.36	9.24	9.05	8.81	8.49	8.15	7.69	7.22	6.75	6.25	5.77	5.38	5.14	5.08	5.59	6.33	9.67	15.2	
160	10.5	10.3	9.95	9.58	9.25	8.82	8.40	7.77	7.21	6.68	6.25	6.00	5.81	5.55	5.55	6.42	9.21	15.2	
170	11.5	11.2	10.7	10.2	9.72	9.22	8.86	8.45	8.02	7.64	7.17	6.74	6.45	6.02	5.78	6.54	8.95	15.2	
180	12.5	12.3	11.9	11.5	11.1	10.6	10.2	9.71	9.15	8.60	8.00	7.42	7.03	6.45	6.04	6.70	8.90	15.2	

H( $\beta$ ) Range:-90 - 90DEGH( $\beta$ ) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:HSO

Test Date:07 June 2023

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351

Humidity:65.0%

Test Distance:8.100m [K=1.0000]

Remarks: ELP-200-57K-110D



## Photometric Data Table [cd]

G/C	0.0	15.0	30.0	45.0	60.0	75.0	90.0	105.0	120.0	135.0
0.0	11142	11088	11050	11014	10972	10967	10980	10931	10886	10912
3.0	11095	11070	11073	11011	10938	10931	10947	10921	10888	10931
6.0	11045	11002	10969	10950	10934	10878	10897	10865	10872	10851
9.0	10984	10928	10916	10918	10844	10864	10841	10831	10798	10752
12.0	10888	10853	10807	10774	10800	10740	10738	10743	10717	10682
15.0	10778	10732	10720	10701	10694	10644	10639	10618	10567	10604
18.0	10646	10591	10589	10560	10543	10470	10491	10451	10462	10438
21.0	10502	10453	10395	10338	10323	10328	10295	10317	10276	10299
24.0	10280	10233	10194	10221	10128	10188	10148	10100	10130	10086
27.0	10065	10020	9980	9936	9955	9939	9912	9954	9888	9904
30.0	9783	9749	9729	9697	9665	9633	9694	9649	9621	9625
33.0	9419	9410	9322	9303	9291	9320	9349	9320	9321	9296
36.0	8891	8855	8776	8817	8788	8803	8818	8844	8829	8804
39.0	8151	8136	8069	8082	8072	8095	8166	8156	8140	8138
42.0	7233	7192	7110	7163	7169	7217	7270	7330	7343	7293
45.0	6279	6226	6162	6222	6213	6315	6339	6396	6427	6434
48.0	5382	5340	5252	5291	5318	5401	5405	5481	5534	5515
51.0	4649	4634	4538	4537	4537	4609	4629	4720	4772	4769
54.0	4106	4105	4043	3959	3959	3993	4001	4107	4169	4174
57.0	3703	3706	3658	3573	3541	3559	3583	3687	3717	3756
60.0	3421	3421	3402	3321	3266	3273	3297	3407	3439	3479
63.0	3219	3224	3221	3173	3102	3090	3140	3225	3235	3278
66.0	3034	3019	3022	2982	2919	2918	2990	3025	3035	3061
69.0	2663	2639	2631	2626	2567	2587	2646	2674	2650	2668
72.0	1949	1889	1827	1846	1793	1829	1876	1921	1939	2001
75.0	1334	1304	1257	1244	1234	1258	1285	1304	1334	1354
78.0	925.6	904.3	873.5	855.3	847.3	857.2	876.0	903.6	925.4	951.3
81.0	603.2	583.0	557.8	552.6	542.8	556.3	562.9	589.6	602.2	623.4
84.0	370.9	354.1	339.8	332.1	326.4	331.1	339.6	355.0	365.0	382.4
87.0	227.1	216.9	204.3	202.6	194.9	198.0	202.5	213.6	222.6	233.1
90.0	151.9	146.8	145.9	140.2	137.9	136.4	140.0	141.5	143.9	151.4
93.0	117.8	112.6	108.1	104.4	97.84	96.71	97.58	100.8	105.9	115.6
96.0	76.54	75.87	73.17	69.85	68.83	67.90	67.22	68.13	70.22	75.43
99.0	67.89	67.19	66.58	65.92	65.47	64.79	64.27	64.69	65.17	64.92
102.0	65.00	64.67	64.30	62.91	62.09	61.27	60.88	61.63	63.15	63.29
105.0	60.44	60.40	60.28	60.07	59.30	58.80	58.80	58.42	58.60	59.13
108.0	62.44	61.83	62.09	61.88	60.82	60.25	60.82	59.85	59.65	60.31
111.0	65.58	64.59	64.20	63.93	63.17	63.33	63.58	62.66	61.60	61.80
114.0	69.05	68.11	67.40	66.67	66.94	67.06	66.83	65.94	65.17	64.46
117.0	71.88	71.36	69.75	69.65	70.37	70.24	70.20	69.63	67.99	68.15
120.0	74.18	74.13	73.17	73.44	72.86	72.89	72.42	71.87	71.33	71.49
123.0	77.60	77.25	76.96	76.91	76.28	76.34	75.44	75.15	74.65	74.49
126.0	81.35	81.29	80.43	80.43	80.03	79.59	79.03	78.38	78.07	77.92
129.0	84.96	84.59	84.10	83.87	83.41	82.97	82.50	81.94	81.63	81.72
132.0	88.15	87.98	87.62	87.81	86.97	86.48	86.15	85.45	84.95	85.43
135.0	91.53	91.46	91.01	91.38	90.43	89.89	89.46	89.16	88.53	88.71
138.0	94.96	94.90	95.66	94.73	94.05	93.47	92.93	92.25	92.02	92.48
141.0	98.21	98.94	98.70	97.78	97.16	96.56	96.72	95.86	95.10	95.57
144.0	101.2	102.0	101.6	101.0	100.0	99.44	99.45	98.79	98.59	98.57
147.0	103.9	104.1	104.0	103.9	102.5	102.5	102.6	101.7	101.3	101.4
150.0	106.3	106.6	106.4	105.8	105.2	105.4	104.9	104.4	103.7	103.5
153.0	109.0	109.1	108.2	108.3	107.4	107.3	107.1	106.9	106.0	106.4
156.0	111.6	111.8	110.9	111.0	109.7	109.9	109.6	109.4	108.4	108.8
159.0	114.4	114.1	113.0	113.0	112.3	112.4	112.2	112.0	111.2	111.1
162.0	116.6	116.4	115.2	115.0	114.6	115.0	114.4	114.5	113.6	113.1
165.0	119.2	118.7	117.6	117.6	117.1	117.0	116.9	116.6	115.0	115.8
168.0	121.8	121.5	120.0	120.1	119.4	119.3	118.7	118.6	117.6	117.9
171.0	123.5	123.1	121.9	122.2	121.7	121.3	120.5	121.0	119.8	119.7
174.0	125.1	124.9	123.5	123.6	122.9	122.3	121.6	121.8	121.5	121.3
177.0	125.4	125.0	123.9	124.3	123.4	123.2	122.3	122.3	121.9	122.4
180.0	125.1	125.0	123.8	123.9	123.6	123.3	122.0	122.1	121.9	121.7
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	10851	10874	11142	11088	11050	11014	10972	10967	10980	10931
3.0	10902	10909	11108	11107	11044	10995	10979	10940	10988	10943
6.0	10858	10779	11080	11036	11004	10967	10951	10919	10956	10896
9.0	10757	10770	11006	10982	10958	10921	10926	10862	10876	10838
12.0	10707	10665	10934	10900	10886	10849	10870	10807	10778	10741
15.0	10582	10579	10826	10800	10789	10788	10739	10749	10693	10614
18.0	10473	10430	10694	10662	10672	10647	10590	10568	10586	10486
21.0	10352	10284	10532	10509	10520	10462	10454	10427	10406	10335
24.0	10110	10123	10353	10335	10323	10307	10264	10232	10235	10170
27.0	9898	9884	10146	10152	10122	10093	10054	9993	10009	9872
30.0	9610	9636	9886	9875	9837	9760	9765	9676	9630	9595

H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:HSO

Test Date:07 June 2023

V(B) Range:-180 - 180DEG

V(B) Interval: 0.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351

Humidity:65.0%

Test Distance:8.100m [K=1.0000]

Remarks: ELP-200-57K-110D

**Photometric Data Table [cd]**

33.0	9259	9242	9585	9505	9453	9370	9367	9290	9206	9063
36.0	8777	8705	9094	9016	8920	8834	8774	8658	8575	8421
39.0	8071	7973	8462	8283	8199	8088	7994	7851	7766	7613
42.0	7185	7128	7608	7410	7306	7185	7154	6966	6855	6663
45.0	6298	6215	6678	6508	6419	6262	6200	6058	5979	5805
48.0	5418	5387	5772	5631	5533	5436	5373	5220	5184	5062
51.0	4695	4728	4965	4893	4837	4741	4700	4587	4529	4501
54.0	4174	4211	4318	4313	4286	4211	4190	4119	4101	4122
57.0	3799	3874	3827	3882	3887	3839	3814	3771	3765	3828
60.0	3556	3612	3494	3570	3612	3559	3567	3567	3578	3652
63.0	3343	3397	3241	3343	3403	3360	3369	3386	3448	3477
66.0	3115	3153	3045	3144	3202	3193	3196	3218	3268	3263
69.0	2674	2685	2723	2780	2873	2889	2920	2910	2927	2881
72.0	1993	2001	2130	2158	2235	2278	2311	2272	2274	2114
75.0	1346	1376	1467	1490	1530	1570	1587	1544	1528	1448
78.0	957.0	976.9	1022	1055	1089	1107	1119	1097	1072	1034
81.0	633.5	646.9	668.9	693.7	729.3	742.6	755.5	738.6	726.0	691.4
84.0	386.8	399.0	408.0	419.2	442.5	451.0	462.8	447.7	439.3	415.3
87.0	237.0	245.0	245.3	249.5	266.2	266.0	276.2	261.0	263.2	245.8
90.0	155.0	160.6	152.8	154.0	160.2	160.5	164.2	159.8	158.7	151.7
93.0	117.8	121.6	112.4	113.7	117.0	119.7	120.1	118.8	117.4	111.8
96.0	76.82	77.42	66.90	68.14	72.36	74.40	75.56	74.08	73.35	69.26
99.0	64.98	66.03	54.06	54.29	54.86	55.90	56.57	55.92	55.45	55.15
102.0	63.70	64.05	51.91	52.09	52.52	52.42	53.05	52.51	51.77	51.95
105.0	58.94	58.61	45.83	45.83	45.83	46.66	46.82	46.47	46.65	46.31
108.0	59.70	59.80	46.92	46.30	46.09	46.45	46.79	46.49	47.57	46.83
111.0	62.40	62.17	49.77	48.72	48.13	47.40	48.15	48.30	49.44	48.05
114.0	65.41	66.02	53.34	52.29	51.34	49.47	50.84	50.52	51.82	50.52
117.0	67.38	67.89	55.93	55.47	54.00	53.92	52.71	53.58	54.50	53.84
120.0	70.66	71.21	58.48	57.92	57.03	57.98	57.02	56.94	57.49	57.49
123.0	74.64	74.48	61.97	61.54	61.08	60.82	60.57	61.08	61.37	61.46
126.0	77.87	77.92	66.25	65.58	64.85	64.72	64.57	65.02	65.46	65.21
129.0	81.04	81.67	70.08	69.17	68.51	68.61	68.65	68.45	68.68	68.63
132.0	84.64	84.82	73.67	72.94	72.52	72.55	72.17	72.26	72.79	72.34
135.0	88.74	88.34	77.50	76.54	76.58	76.50	75.94	75.72	76.10	76.25
138.0	92.42	92.28	81.91	81.13	81.44	80.08	79.92	79.87	80.24	79.91
141.0	96.11	95.70	86.05	85.61	85.20	84.15	83.40	83.62	84.06	83.52
144.0	98.58	98.70	89.71	89.00	88.69	87.97	87.15	87.23	87.51	87.02
147.0	101.6	100.9	92.86	91.56	92.18	91.31	90.92	90.58	91.13	90.45
150.0	104.0	103.5	96.08	94.87	94.84	94.16	93.75	94.07	94.33	93.69
153.0	106.2	105.9	99.29	98.47	98.13	97.46	96.99	97.33	97.72	97.14
156.0	108.8	108.8	103.0	102.2	101.5	100.9	100.6	100.9	101.5	101.0
159.0	110.9	111.5	106.9	106.0	105.2	104.6	104.2	104.5	104.6	104.7
162.0	113.4	113.3	110.1	109.4	108.9	107.9	107.9	108.2	108.0	108.2
165.0	115.7	115.5	113.8	112.8	112.3	111.4	111.0	111.4	111.2	111.2
168.0	117.7	117.8	117.2	116.2	115.9	115.1	114.5	114.1	114.1	114.3
171.0	120.0	119.9	120.4	119.7	119.5	118.0	117.6	117.2	116.7	116.9
174.0	121.8	121.2	123.0	122.3	121.7	120.9	120.7	119.5	119.6	119.2
177.0	122.2	121.8	124.8	123.7	123.6	122.9	122.1	121.2	121.4	121.0
180.0	121.4	121.1	125.7	124.6	124.4	123.7	123.7	122.5	122.4	122.2
G/C	300.0	315.0	330.0	345.0						
0.0	10886	10912	10851	10874						
3.0	10889	10910	10838	10853						
6.0	10845	10809	10849	10775						
9.0	10771	10778	10765	10765						
12.0	10661	10738	10667	10648						
15.0	10582	10569	10593	10532						
18.0	10456	10477	10452	10425						
21.0	10312	10313	10297	10266						
24.0	10101	10081	10070	10037						
27.0	9832	9838	9858	9840						
30.0	9536	9515	9498	9539						
33.0	9076	9051	9043	9068						
36.0	8399	8410	8410	8409						
39.0	7575	7549	7540	7593						
42.0	6664	6636	6651	6661						
45.0	5838	5786	5791	5815						
48.0	5069	5081	5079	5078						
51.0	4536	4516	4542	4540						
54.0	4116	4116	4149	4148						
57.0	3838	3852	3853	3845						
60.0	3673	3654	3641	3655						
63.0	3473	3440	3456	3459						
66.0	3242	3210	3223	3195						

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

## Photometric Data Table [cd]

69.0	2801	2736	2703	2671
72.0	2048	1993	1971	1941
75.0	1425	1383	1360	1343
78.0	1017	974.4	974.5	952.1
81.0	677.3	646.4	642.1	634.4
84.0	406.0	390.6	390.6	382.5
87.0	239.6	231.9	233.2	230.8
90.0	148.9	145.6	147.8	147.0
93.0	108.8	109.6	109.8	108.9
96.0	67.37	66.21	66.76	66.78
99.0	54.91	53.69	53.34	53.66
102.0	51.77	50.61	50.81	50.55
105.0	45.83	45.28	45.03	45.40
108.0	46.87	47.01	45.82	46.24
111.0	48.98	48.04	48.36	48.75
114.0	51.57	50.37	51.93	52.00
117.0	53.79	54.57	54.50	55.11
120.0	57.72	58.78	57.62	58.06
123.0	61.51	61.83	61.65	61.25
126.0	65.21	65.54	65.13	65.55
129.0	68.90	68.95	68.87	69.00
132.0	72.58	73.15	72.56	72.32
135.0	76.46	77.08	76.50	75.88
138.0	80.25	80.52	81.09	79.98
141.0	84.12	84.18	84.99	84.43
144.0	87.54	87.71	87.95	87.95
147.0	90.79	91.23	91.24	90.65
150.0	93.83	93.82	94.19	93.69
153.0	97.12	96.71	96.88	97.14
156.0	100.3	100.6	100.5	100.9
159.0	103.8	103.4	103.4	103.9
162.0	107.6	107.0	107.0	106.7
165.0	110.4	110.6	109.8	110.0
168.0	114.0	113.2	112.8	113.0
171.0	116.7	116.5	116.1	115.8
174.0	119.3	119.0	118.8	118.6
177.0	121.2	120.6	120.5	120.0
180.0	122.6	121.6	121.8	121.3

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:07 June 2023**

**V(B) Range:-180 - 180DEG**  
**V(B) Interval: 0.5DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.351**  
**Humidity:65.0%**  
**Test Distance:8.100m [K=1.0000]**  
**Remarks: ELP-200-57K-110D**

50% Beam Angle : 96▲-H X 94▲-V

one-half-peak spread: U:38.6,D:37.6 , L:45.9,R:47.5

TOTAL FLUX : 28228 lm

LOR : 100.0%

AVAILABILITY FLUX : 27022 lm

AVAILABILITY : 95.7%

