

**Floodlight Summary:**

Report based on lamp delivering 1000 lumens.

Maximum Intensity	255.4 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	217.4V x 180.0H
	At 50% of Imax	125.5V x 126.8H
	At 90% of Imax	45.6V x 51.3H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	971.0 lumens per klm.
	To 50% of Imax	634.7 lumens per klm.
	To 90% of Imax	122.8 lumens per klm.

Upward LOR	10.0 %
Downward LOR	90.0 %

Luminaire Efficiency(Light Output Ratio)	100.0 %
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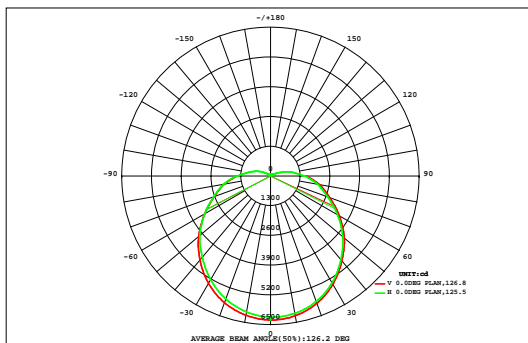
**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 2023**

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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\_DD**

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:119.51lm/W	
MODEL	ELP-200-57K_DD	Imax(cd)	6298
NOMINAL POWER(W)	200	AVAILABILITY(%)	97.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	23942
NOMINAL FLUX(lm)	24661.8	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	24662
TEST VOLTAGE(V)	220	θ @50%(H,V)	127,126DEG

VERTICAL(°)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	3.89	11.9	20.2	28.4	35.9	42.7	48.1	51.7	53.8	54.0	52.2	48.6	43.3	36.6	29.1	20.9	12.4	4.10	598	598
90	3.89	11.9	20.2	28.4	35.9	42.7	48.1	51.7	53.8	54.0	52.2	48.6	43.3	36.6	29.1	20.9	12.4	4.10	598	598
80	4.08	13.2	23.5	34.6	45.3	55.0	62.9	68.5	71.4	71.6	68.9	63.5	55.7	46.0	35.4	24.3	13.7	4.29	762	762
70	4.25	14.4	26.7	40.0	53.5	66.5	77.8	86.2	90.8	91.0	86.8	78.8	67.5	54.4	40.8	27.5	15.0	4.47	927	927
60	4.41	15.5	29.4	45.2	62.6	79.9	95.4	107	113	113	107	96.3	81.1	63.8	46.3	30.2	16.2	4.64	1112	1112
50	4.55	16.5	31.8	50.7	72.1	93.7	113	127	135	134	127	113	94.5	73.3	52.0	32.7	17.2	4.80	1293	1293
40	4.67	17.3	34.1	55.8	80.9	106	128	145	154	153	144	127	106	81.9	57.1	35.2	18.0	4.94	1454	1454
30	4.77	17.9	36.1	60.0	88.1	116	141	160	170	169	159	139	115	88.4	61.4	37.4	18.7	5.04	1587	1587
20	4.84	18.3	37.5	63.1	93.0	123	151	171	181	180	169	148	121	92.9	64.7	39.0	19.2	5.12	1681	1681
10	4.87	18.5	38.3	64.8	95.7	127	155	176	187	185	174	154	127	96.5	66.8	40.0	19.5	5.16	1735	1735
0	4.87	18.5	38.1	64.4	94.6	125	152	173	184	186	176	156	128	97.2	67.0	40.1	19.5	5.17	1729	1729
-10	4.83	18.2	37.1	62.1	90.3	119	145	166	177	178	169	149	123	94.5	65.4	39.3	19.3	5.13	1663	1663
-20	4.76	17.7	35.5	58.7	85.3	112	136	155	165	166	157	139	116	89.6	62.3	37.9	18.9	5.07	1562	1562
-30	4.66	17.1	33.5	54.5	78.4	103	124	140	149	150	142	127	107	82.6	58.0	35.8	18.3	4.96	1428	1428
-40	4.53	16.3	31.2	49.5	70.2	91.1	110	123	131	132	125	113	95.1	74.1	52.7	33.5	17.5	4.84	1274	1274
-50	4.39	15.3	28.8	44.2	61.2	78.1	93.1	105	111	112	107	96.0	81.7	64.6	47.1	30.9	16.5	4.69	1101	1101
-60	4.23	14.2	26.2	39.2	52.4	65.2	76.4	85.0	89.7	90.2	86.5	78.9	68.2	55.4	41.8	28.2	15.3	4.52	922	922
-70	4.05	13.0	23.1	33.8	44.3	53.9	62.0	67.9	71.1	71.5	69.2	64.1	56.5	47.0	36.2	24.8	14.0	4.34	761	761
-80	3.87	11.8	19.8	27.8	35.3	41.9	47.4	51.5	53.6	53.9	52.4	49.0	44.0	37.5	29.7	21.4	12.7	4.15	597	597
-90	3.87	11.8	19.8	27.8	35.3	41.9	47.4	51.5	53.6	53.9	52.4	49.0	44.0	37.5	29.7	21.4	12.7	4.15	597	597
-90 -80 -70 -60 -50 -40 -30 -20 HORIZONTAL(°) 20 30 40 50 60 70 80 90																				
Φ t	80.5	286	551	877	1239	1598	1918	2158	2287	2292	2172	1941	1629	1276	914	579	302	85.4	22185	---
Φ a	80.5	286	551	877	1239	1598	1918	2158	2287	2292	2172	1941	1629	1276	914	579	302	85.4	---	22185

one-half-peak spread: U:62.9,D:61.5 , L:62.9,R:64.8

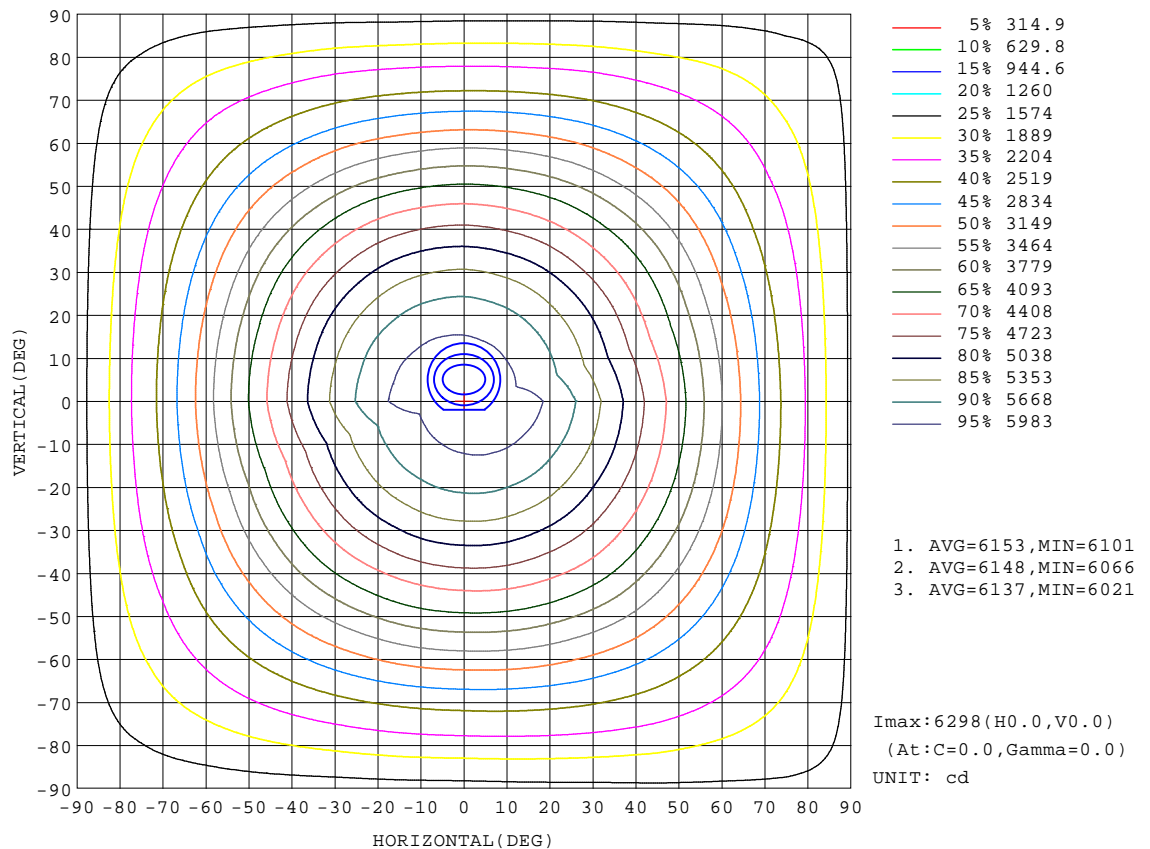
NEMA Beam Type: Type 7

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**

## ISOCANDELA DIAGRAM

Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

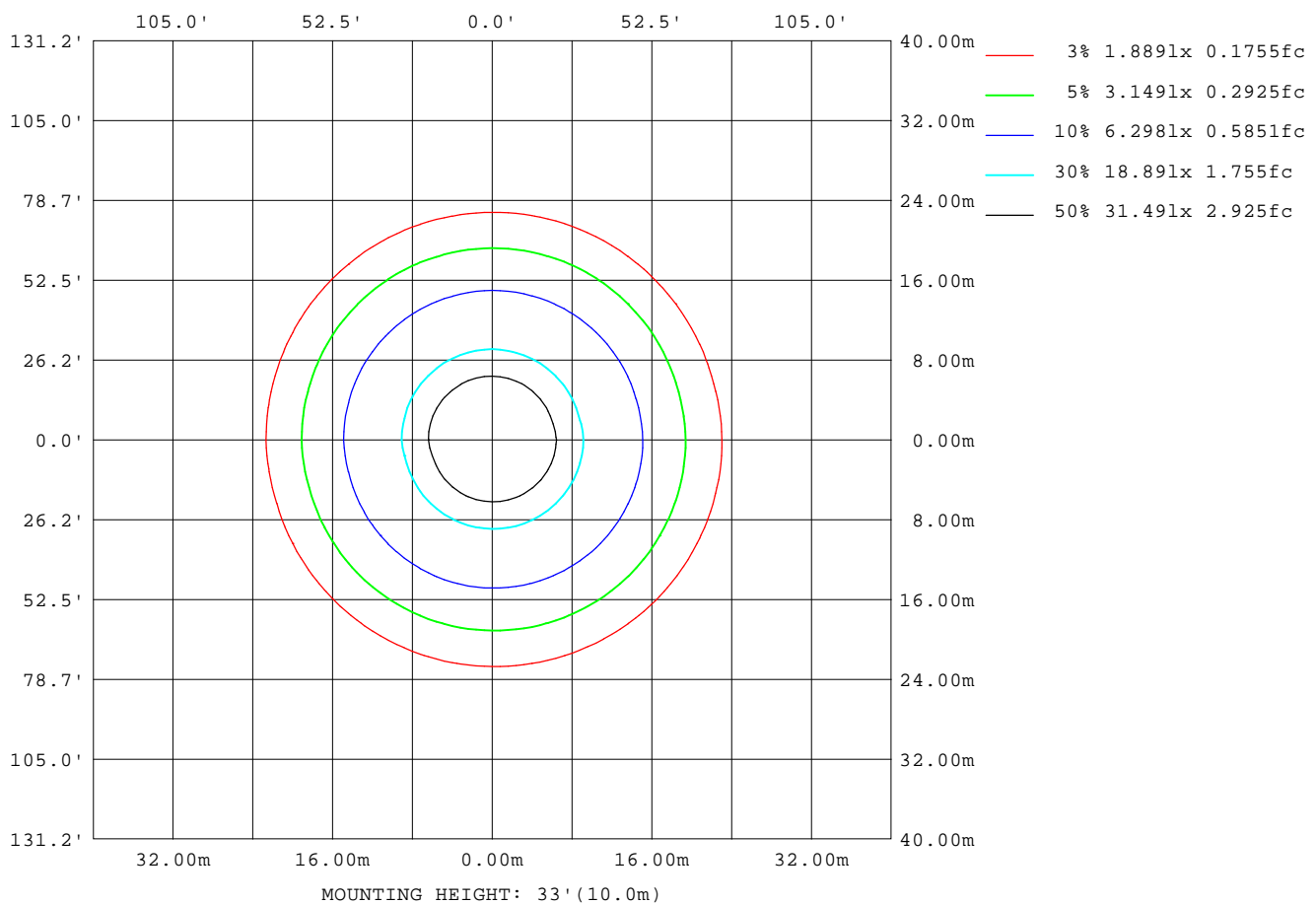


**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 2023**

**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\_DD**

**ISOLUX DIAGRAM**

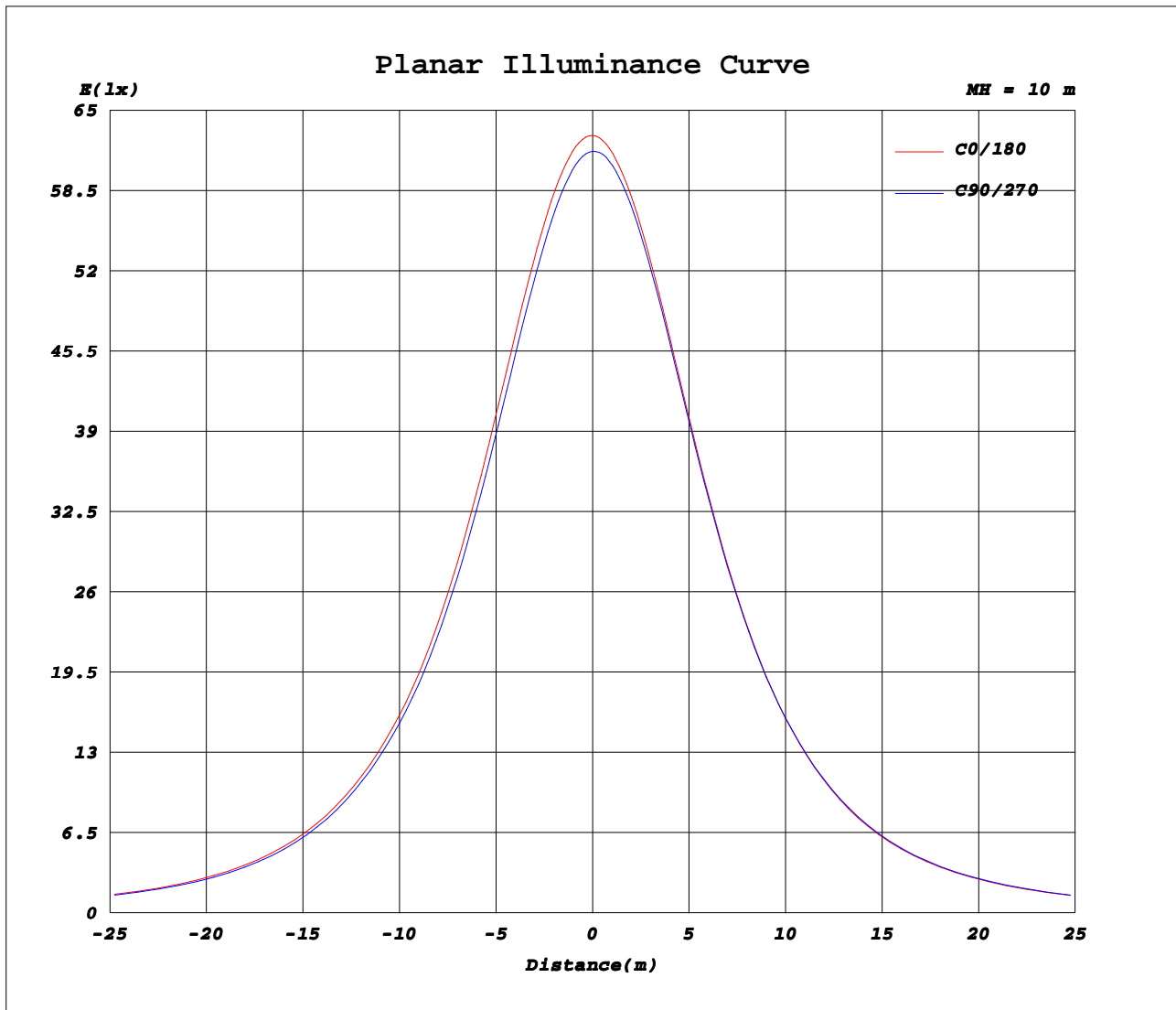
Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**

## Planar Illuminance Curve

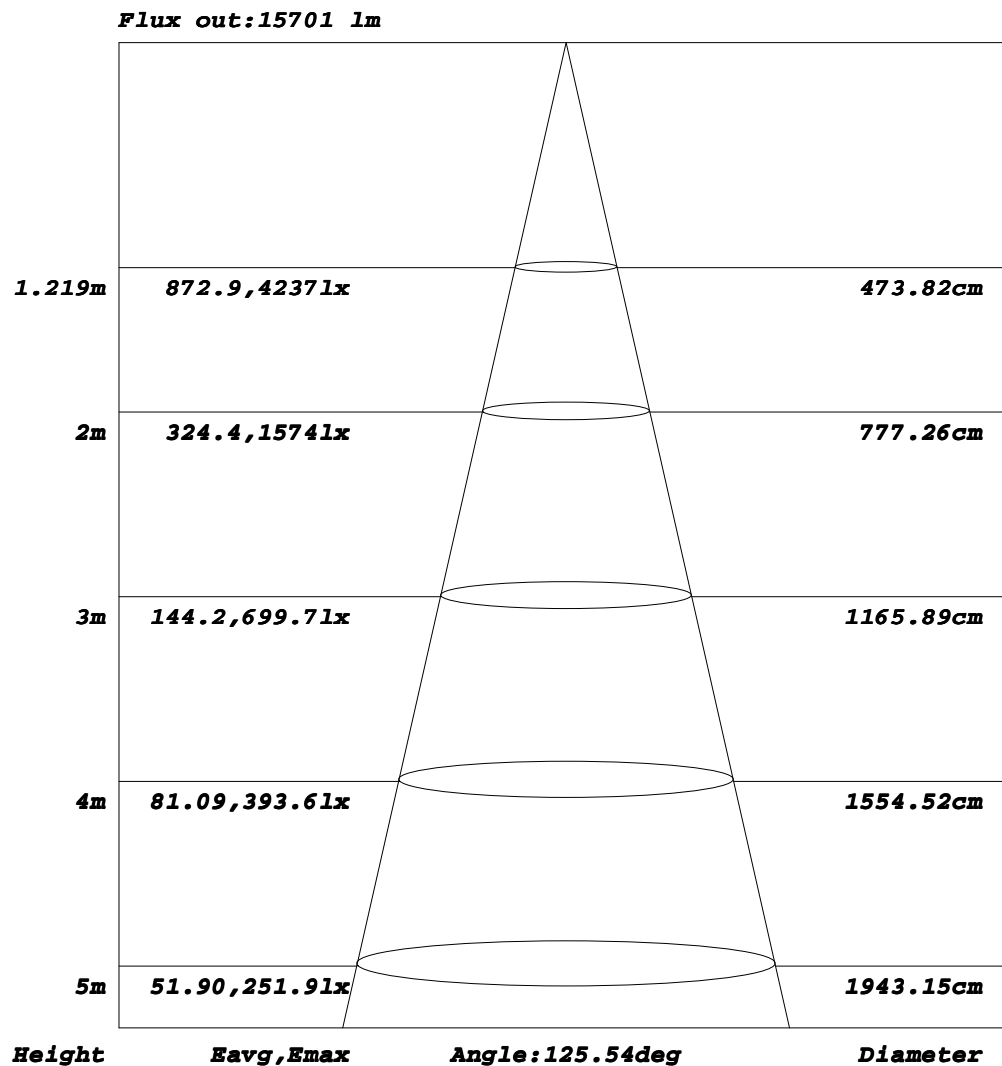


H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 0.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:HSO  
Test Date:11 August 2023

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\_DD

**AAI Figure**

Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



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: 11 August 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\_DD**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(°) \ V(°)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1435	1157	925	714	474	277	131	56.7	57.6	60.4	63.5	67.0	68.5	71.0	73.2	75.7	78.7	80.4	77.9
-170	1435	1160	929	719	481	285	139	61.5	60.0	63.0	65.9	69.2	70.6	72.2	74.0	74.8	76.4	78.0	78.0
-160	1435	1171	945	744	516	320	171	76.8	61.2	63.5	65.5	67.6	69.9	71.0	72.3	73.8	75.0	75.4	75.6
-150	1435	1190	974	788	581	386	230	112	62.1	61.7	63.7	65.5	67.7	69.2	69.6	70.2	71.1	71.7	71.8
-140	1435	1218	1016	846	676	483	313	181	88.9	60.6	64.6	68.8	70.9	73.1	69.1	68.1	67.7	67.7	68.0
-130	1435	1254	1071	923	782	617	449	304	188	103	67.6	74.5	90.6	93.8	100	103	97.4	93.0	91.9
-120	1435	1297	1144	1016	898	780	646	512	404	300	210	196	208	230	255	283	291	290	296
-110	1435	1340	1233	1130	1041	958	870	797	722	645	587	548	525	531	554	586	597	608	624
-100	1435	1380	1331	1275	1222	1170	1122	1083	1051	1025	1004	984	966	960	961	967	968	972	979
-90	1435	1427	1419	1411	1411	1412	1412	1418	1423	1429	1431	1434	1436	1444	1452	1460	1462	1465	1467
-80	1435	1480	1524	1567	1617	1666	1711	1759	1806	1849	1890	1927	1961	1996	2026	2051	2067	2077	2084
-70	1435	1532	1626	1716	1812	1917	2015	2102	2177	2249	2320	2384	2441	2491	2537	2576	2606	2625	2635
-60	1435	1580	1720	1861	2010	2141	2259	2382	2504	2629	2751	2868	2975	3070	3156	3226	3277	3309	3323
-50	1435	1623	1806	2001	2161	2324	2494	2678	2866	3053	3233	3399	3550	3683	3802	3901	3974	4018	4038
-40	1435	1661	1886	2111	2294	2498	2732	2976	3218	3457	3688	3901	4089	4246	4373	4482	4568	4622	4644
-30	1435	1692	1954	2195	2416	2666	2945	3240	3531	3814	4077	4312	4523	4722	4891	5029	5140	5210	5238
-20	1435	1715	2005	2258	2513	2810	3131	3453	3775	4090	4368	4633	4891	5124	5322	5482	5603	5685	5722
-10	1435	1730	2039	2302	2583	2907	3265	3625	3981	4308	4595	4873	5143	5389	5601	5768	5898	5985	6036
0	1435	1736	2053	2322	2615	2951	3332	3716	4105	4465	4801	5129	5425	5683	5895	6065	6184	6265	6298
10	1435	1732	2042	2310	2596	2927	3292	3665	4043	4400	4723	5038	5328	5577	5787	5943	6044	6097	6096
20	1435	1718	2011	2273	2538	2847	3182	3525	3877	4221	4534	4817	5088	5320	5512	5663	5770	5826	5840
30	1435	1696	1962	2219	2450	2715	3010	3316	3628	3936	4230	4484	4703	4901	5081	5221	5314	5370	5387
40	1435	1666	1897	2136	2334	2551	2792	3049	3306	3558	3801	4027	4231	4405	4547	4649	4721	4768	4784
50	1435	1628	1819	2022	2206	2372	2549	2738	2934	3127	3310	3485	3647	3790	3906	3998	4064	4109	4128
60	1435	1585	1734	1882	2043	2190	2308	2434	2558	2685	2809	2928	3041	3138	3217	3278	3328	3362	3378
70	1435	1538	1639	1739	1843	1953	2060	2150	2224	2291	2361	2426	2484	2531	2571	2603	2630	2647	2654
80	1435	1486	1537	1586	1644	1700	1754	1800	1844	1887	1932	1973	2008	2033	2051	2066	2080	2089	2093
90	1435	1433	1432	1430	1436	1442	1448	1449	1450	1451	1457	1462	1467	1467	1467	1466	1470	1474	1478
100	1435	1386	1339	1290	1246	1197	1147	1103	1065	1034	1014	996	979	968	963	965	963	966	971
110	1435	1344	1245	1145	1058	976	886	804	715	615	544	501	471	466	479	500	498	496	503
120	1435	1301	1153	1028	912	789	651	505	367	241	144	137	148	159	170	182	185	184	188
130	1435	1259	1079	933	790	618	443	294	170	97.8	75.3	76.3	94.6	106	104	103	97.8	93.2	93.1
140	1435	1222	1022	852	678	479	305	169	79.3	57.0	63.5	74.8	74.4	72.2	66.9	63.6	62.5	61.8	61.5
150	1435	1193	979	792	580	381	221	101	55.2	55.2	58.1	59.6	61.9	64.1	64.5	65.0	65.7	66.2	65.9
160	1435	1173	948	746	514	316	162	67.2	55.0	57.6	60.0	62.9	66.1	67.2	68.3	70.3	71.5	71.8	71.8
170	1435	1160	930	719	480	282	135	57.9	56.7	59.3	62.2	65.4	67.4	69.4	71.6	73.3	75.0	76.6	76.0
180	1435	1157	925	714	474	277	131	56.7	57.6	60.4	63.5	67.0	68.5	71.0	73.2	75.7	78.7	80.4	78.0

**H(β) Range:-90 - 90DEG**  
**H(β) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:220.0V I:0.9622A P:206.4W PF:0.9748 Lamp Flux:24661.8x1 lm		
NAME: ELP-200-57K_DD	TYPE:LED	WEIGHT:
SPEC.:DD	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H(DEC) V(DEC)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	80.4	79.7	77.5	75.7	74.4	72.5	70.6	68.3	66.2	64.5	62.6	133	273	468	711	951	1204	1526	
-170	78.2	77.7	75.8	75.0	73.5	72.3	72.3	68.5	65.7	64.5	64.1	134	278	473	716	955	1208	1526	
-160	75.8	75.5	74.6	73.3	73.0	72.6	69.6	66.8	64.5	65.2	69.8	160	310	506	747	972	1223	1526	
-150	71.8	71.2	70.9	70.3	70.9	69.4	66.8	65.2	63.2	62.8	98.6	215	373	569	802	1002	1248	1526	
-140	68.0	68.4	69.0	72.3	78.3	82.3	83.0	69.7	65.4	75.7	160	292	465	667	875	1047	1283	1526	
-130	94.5	101	111	115	116	110	94.0	86.0	107	168	270	419	600	797	956	1109	1325	1526	
-120	299	308	309	291	277	255	234	237	306	388	484	628	791	934	1053	1196	1368	1526	
-110	619	618	617	594	576	569	578	605	653	725	808	901	995	1083	1184	1309	1415	1526	
-100	978	981	986	981	981	988	1012	1039	1066	1092	1122	1157	1224	1296	1362	1415	1470	1526	
-90	1474	1481	1489	1492	1495	1498	1505	1512	1518	1519	1520	1521	1524	1528	1531	1530	1528	1526	
-80	2089	2090	2086	2079	2067	2050	2028	2002	1970	1931	1887	1840	1793	1744	1693	1638	1583	1526	
-70	2641	2637	2624	2603	2574	2539	2496	2443	2382	2313	2243	2161	2064	1958	1850	1743	1635	1526	
-60	3329	3316	3284	3234	3169	3091	3000	2894	2777	2656	2539	2420	2293	2163	2006	1842	1685	1526	
-50	4040	4018	3969	3895	3798	3684	3552	3398	3225	3042	2853	2665	2496	2324	2146	1935	1730	1526	
-40	4645	4615	4554	4471	4371	4238	4070	3869	3648	3413	3172	2919	2678	2465	2256	2018	1768	1526	
-30	5236	5191	5103	4986	4837	4664	4480	4264	4015	3737	3446	3152	2852	2577	2335	2085	1799	1526	
-20	5722	5669	5577	5439	5258	5039	4802	4557	4291	3989	3660	3323	2986	2668	2399	2132	1822	1526	
-10	6047	6005	5906	5761	5564	5325	5053	4757	4467	4149	3795	3433	3075	2728	2435	2161	1836	1526	
0	6278	6207	6090	5927	5714	5457	5167	4850	4537	4211	3845	3471	3103	2748	2446	2170	1841	1526	
10	6054	5973	5856	5688	5476	5227	4961	4685	4407	4112	3768	3410	3056	2715	2425	2155	1834	1526	
20	5802	5727	5607	5442	5244	5012	4753	4482	4224	3930	3609	3281	2955	2642	2378	2122	1817	1526	
30	5354	5284	5179	5032	4850	4648	4436	4222	3974	3691	3394	3095	2807	2537	2305	2071	1792	1526	
40	4757	4697	4615	4505	4371	4218	4040	3838	3614	3373	3125	2871	2625	2412	2217	2000	1759	1526	
50	4113	4071	4009	3926	3816	3680	3527	3363	3187	3003	2807	2614	2436	2265	2110	1914	1719	1526	
60	3371	3345	3303	3245	3172	3082	2976	2860	2738	2611	2484	2362	2235	2114	1969	1817	1673	1526	
70	2654	2644	2623	2594	2557	2512	2458	2399	2333	2259	2187	2114	2022	1917	1809	1717	1622	1526	
80	2094	2091	2084	2071	2056	2032	2000	1963	1923	1885	1844	1798	1752	1703	1652	1611	1570	1526	
90	1478	1478	1478	1480	1483	1485	1484	1482	1480	1484	1487	1491	1491	1491	1491	1503	1514	1526	
100	960	952	949	941	940	948	972	996	1022	1060	1105	1163	1224	1279	1330	1392	1458	1526	
110	483	471	461	435	417	420	454	501	578	690	798	890	974	1063	1174	1294	1405	1526	
120	179	174	166	148	128	120	126	138	233	365	505	647	796	921	1036	1190	1359	1526	
130	94.3	99.6	103	97.2	91.1	86.2	66.5	63.7	101	192	315	451	615	799	945	1100	1318	1526	
140	61.5	62.2	62.6	64.8	70.1	65.7	66.4	63.1	54.7	88.8	184	315	480	674	871	1039	1279	1526	
150	66.1	65.2	64.6	63.9	63.2	61.0	58.2	55.8	54.4	55.7	107	226	382	576	804	996	1246	1526	
160	71.6	70.0	68.4	66.5	65.8	64.5	61.1	58.3	55.8	55.7	70.1	165	316	511	749	968	1221	1526	
170	75.5	73.4	71.1	69.5	67.2	65.1	63.4	61.7	60.1	59.7	60.6	137	281	476	718	954	1207	1526	
180	80.4	79.7	77.5	75.7	74.4	72.5	70.6	68.3	66.2	64.5	62.6	133	273	468	711	951	1204	1526	

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**



## 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	6298	6266	6242	6221	6202	6185	6170	6159	6146	6137
3.0	6290	6258	6232	6210	6186	6169	6153	6137	6128	6117
6.0	6267	6233	6203	6178	6154	6134	6114	6103	6090	6082
9.0	6223	6192	6154	6129	6100	6080	6061	6047	6032	6025
12.0	6165	6126	6090	6059	6031	6008	5986	5973	5960	5957
15.0	6090	6051	6009	5978	5944	5924	5901	5887	5873	5870
18.0	5996	5955	5911	5880	5846	5825	5798	5787	5771	5770
21.0	5888	5846	5799	5766	5729	5706	5682	5668	5654	5655
24.0	5761	5721	5670	5634	5596	5573	5548	5534	5520	5523
27.0	5617	5574	5520	5486	5444	5425	5397	5387	5370	5372
30.0	5457	5414	5362	5328	5288	5266	5238	5227	5211	5215
33.0	5289	5241	5192	5159	5119	5097	5068	5058	5041	5046
36.0	5104	5064	5011	4982	4942	4920	4891	4878	4861	4864
39.0	4913	4878	4831	4800	4760	4737	4708	4693	4675	4676
42.0	4722	4691	4650	4622	4582	4558	4524	4510	4488	4488
45.0	4537	4511	4477	4456	4415	4384	4352	4334	4310	4307
48.0	4347	4322	4294	4274	4233	4204	4172	4153	4123	4117
51.0	4141	4121	4096	4076	4032	4004	3970	3952	3922	3912
54.0	3921	3907	3883	3864	3822	3791	3756	3740	3711	3699
57.0	3696	3688	3666	3649	3606	3576	3540	3525	3495	3486
60.0	3471	3467	3447	3431	3391	3361	3323	3310	3282	3272
63.0	3248	3250	3230	3215	3176	3147	3110	3097	3070	3060
66.0	3030	3037	3016	3002	2966	2931	2901	2885	2866	2849
69.0	2817	2820	2808	2792	2763	2729	2698	2684	2667	2651
72.0	2619	2624	2616	2602	2578	2547	2515	2501	2484	2470
75.0	2446	2455	2448	2438	2413	2385	2352	2338	2320	2307
78.0	2282	2285	2279	2271	2245	2218	2193	2182	2160	2149
81.0	2107	2110	2109	2101	2072	2044	2019	2010	1985	1974
84.0	1906	1910	1907	1901	1873	1852	1827	1819	1796	1786
87.0	1716	1720	1716	1712	1690	1675	1650	1643	1619	1610
90.0	1526	1531	1521	1518	1498	1489	1467	1460	1436	1429
93.0	1341	1336	1304	1305	1300	1316	1305	1293	1267	1261
96.0	1136	1124	1105	1114	1126	1148	1140	1123	1089	1072
99.0	989.8	978.8	945.5	961.8	969.3	1015	1018	996.9	947.9	934.0
102.0	864.5	838.6	761.2	773.2	811.5	888.5	900.6	864.4	783.6	761.6
105.0	710.7	671.9	600.0	666.6	767.8	788.1	738.7	630.0	587.9	587.9
108.0	559.8	519.0	410.5	446.1	550.5	666.5	690.1	636.7	500.1	427.5
111.0	425.5	386.5	280.3	297.2	446.3	570.1	590.5	539.5	391.7	274.2
114.0	308.6	276.4	181.4	166.9	345.5	475.9	492.2	445.1	294.6	139.3
117.0	209.6	180.6	108.0	107.0	262.0	380.0	391.2	354.4	212.7	73.87
120.0	132.8	106.3	65.71	86.02	200.6	293.0	296.4	271.5	158.6	62.89
123.0	78.26	64.60	63.36	74.41	152.7	216.9	215.3	199.2	121.1	64.45
126.0	63.41	64.31	61.71	78.02	116.0	152.1	150.8	143.4	93.54	68.56
129.0	65.56	63.87	63.23	87.32	105.2	104.2	103.9	99.55	93.35	70.26
132.0	64.99	64.67	64.78	74.87	98.32	80.42	76.08	81.12	92.04	64.09
135.0	66.16	66.09	66.27	67.34	78.06	75.48	71.59	75.35	72.28	65.89
138.0	67.49	68.06	68.09	69.19	67.81	69.45	68.59	68.75	66.98	67.93
141.0	68.71	70.02	70.03	70.99	68.20	68.11	68.19	67.59	67.91	69.14
144.0	70.14	72.64	72.38	70.88	69.84	69.14	68.93	68.82	69.34	69.72
147.0	71.37	72.57	73.49	71.01	71.14	70.36	70.14	70.39	70.20	70.87
150.0	72.51	72.38	73.46	72.46	71.40	72.23	71.83	71.88	70.74	71.51
153.0	73.67	73.34	73.50	73.67	73.37	72.46	72.12	72.36	72.54	72.93
156.0	74.79	74.54	74.66	75.41	74.50	74.43	74.19	74.15	73.84	74.19
159.0	75.46	75.55	75.46	75.80	75.96	75.60	75.05	75.13	75.75	74.09
162.0	76.37	76.20	75.75	76.19	76.47	76.71	76.77	76.33	75.46	75.09
165.0	77.47	77.32	76.78	77.27	76.69	76.65	76.58	76.47	76.12	76.16
168.0	79.15	79.22	78.47	78.14	78.22	78.44	78.07	78.15	78.02	77.29
171.0	79.91	79.61	78.78	78.70	78.17	78.23	77.83	77.70	77.86	78.10
174.0	80.12	80.06	79.39	79.12	78.42	78.33	77.90	78.18	78.27	78.54
177.0	79.77	79.72	79.25	79.21	78.71	78.45	78.06	78.01	77.87	77.97
180.0	79.89	79.78	79.31	79.22	78.56	78.35	77.92	77.89	77.72	77.78
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	6127	6121	6298	6266	6242	6221	6202	6185	6170	6159
3.0	6110	6104	6284	6252	6236	6218	6198	6183	6170	6157
6.0	6073	6072	6252	6224	6210	6190	6176	6163	6151	6140
9.0	6020	6021	6203	6179	6168	6148	6138	6124	6112	6100
12.0	5952	5956	6142	6118	6108	6092	6082	6071	6061	6047
15.0	5868	5872	6065	6040	6036	6020	6013	6003	5992	5976
18.0	5767	5776	5969	5949	5945	5931	5926	5915	5906	5888
21.0	5653	5662	5858	5840	5837	5827	5821	5811	5803	5786
24.0	5519	5531	5728	5712	5715	5702	5700	5687	5682	5662
27.0	5372	5384	5584	5565	5569	5559	5559	5547	5542	5521
30.0	5214	5228	5425	5410	5415	5405	5405	5393	5387	5367

H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:HSO

Test Date:11 August 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\_DD

## Photometric Data Table [cd]

33.0	5043	5055	5252	5236	5242	5234	5236	5224	5218	5198
36.0	4861	4873	5064	5051	5058	5051	5053	5043	5037	5018
39.0	4673	4683	4869	4854	4862	4855	4860	4849	4847	4828
42.0	4482	4495	4668	4656	4668	4663	4672	4660	4656	4635
45.0	4297	4311	4465	4456	4473	4471	4478	4466	4465	4447
48.0	4106	4116	4254	4243	4262	4262	4267	4258	4268	4259
51.0	3901	3907	4026	4018	4036	4038	4049	4043	4054	4050
54.0	3686	3692	3793	3785	3806	3807	3819	3818	3831	3833
57.0	3468	3473	3560	3555	3573	3576	3590	3589	3606	3610
60.0	3254	3256	3332	3327	3345	3349	3363	3361	3378	3384
63.0	3042	3043	3109	3105	3124	3125	3143	3140	3155	3162
66.0	2836	2828	2886	2891	2902	2912	2921	2922	2931	2945
69.0	2638	2628	2680	2684	2698	2706	2717	2715	2721	2736
72.0	2455	2445	2492	2495	2510	2517	2529	2525	2527	2540
75.0	2290	2278	2322	2324	2341	2348	2361	2357	2358	2368
78.0	2137	2128	2170	2171	2190	2192	2201	2195	2196	2203
81.0	1963	1960	1985	1983	2007	2016	2031	2025	2031	2045
84.0	1771	1767	1795	1793	1815	1821	1831	1826	1837	1845
87.0	1594	1592	1616	1612	1632	1637	1649	1647	1657	1662
90.0	1412	1411	1435	1430	1448	1451	1467	1466	1478	1478
93.0	1243	1248	1273	1268	1281	1283	1302	1300	1318	1303
96.0	1066	1080	1103	1095	1088	1083	1109	1136	1150	1136
99.0	909.3	943.4	967.4	956.7	929.5	934.6	960.6	996.1	1014	984.1
102.0	761.1	814.1	841.5	822.4	771.5	747.0	774.1	853.8	882.8	827.4
105.0	600.1	681.3	714.1	684.5	602.5	541.0	613.5	724.7	753.9	691.5
108.0	447.9	532.8	566.6	531.3	442.3	352.0	436.4	573.8	607.1	534.9
111.0	317.9	401.0	430.8	395.9	307.2	196.9	298.4	426.9	454.9	392.3
114.0	213.1	289.5	312.1	281.8	199.7	96.60	203.8	310.0	336.1	288.1
117.0	133.3	194.7	211.7	184.8	119.0	77.14	148.9	232.8	256.4	214.1
120.0	76.02	119.6	131.4	107.8	67.36	74.24	113.8	171.4	187.7	158.4
123.0	59.70	71.36	75.73	61.12	54.75	66.44	118.4	139.0	141.2	138.0
126.0	60.89	60.63	54.93	54.18	55.08	72.14	105.6	132.3	130.3	136.1
129.0	62.39	62.20	56.89	56.24	55.92	78.67	86.23	100.4	106.6	102.3
132.0	63.78	63.66	58.88	57.78	57.70	68.72	87.90	72.31	72.94	77.60
135.0	65.14	64.95	60.38	59.45	59.34	59.76	73.34	68.52	65.83	70.96
138.0	66.56	66.32	62.29	61.34	61.17	61.64	62.74	63.79	62.84	63.37
141.0	67.93	67.75	64.37	63.34	63.37	64.15	62.21	61.82	61.85	61.14
144.0	69.54	69.47	66.90	65.45	65.73	65.09	63.69	63.16	63.04	62.56
147.0	70.80	69.99	67.02	67.13	67.27	65.43	65.16	64.75	64.30	64.26
150.0	71.27	70.96	68.48	67.85	68.71	67.14	66.35	66.82	65.92	66.60
153.0	72.27	72.13	70.11	69.20	69.46	68.77	68.39	68.00	67.53	67.40
156.0	73.44	73.05	71.56	70.68	70.49	71.09	70.51	70.26	69.65	69.67
159.0	73.92	74.06	72.80	72.34	71.79	72.02	72.74	71.61	71.30	71.21
162.0	74.70	74.72	74.12	73.45	73.45	72.80	73.44	73.51	73.36	72.93
165.0	75.80	75.69	75.73	75.12	74.86	74.42	74.19	74.45	74.29	73.35
168.0	77.69	77.48	77.62	77.41	76.98	76.06	76.16	75.59	75.23	74.96
171.0	78.16	78.26	79.09	79.13	78.24	77.49	77.23	76.34	76.11	76.09
174.0	78.76	78.58	80.06	79.52	79.69	78.38	77.93	77.17	76.77	76.52
177.0	77.80	77.67	80.13	79.47	79.59	78.84	78.39	77.75	77.57	77.25
180.0	77.52	77.44	80.28	79.50	79.55	79.02	78.74	78.19	78.09	77.73
G/C	300.0	315.0	330.0	345.0						
0.0	6146	6137	6127	6121						
3.0	6146	6135	6125	6117						
6.0	6129	6118	6107	6095						
9.0	6089	6078	6069	6055						
12.0	6035	6022	6014	5995						
15.0	5967	5952	5941	5921						
18.0	5881	5863	5852	5832						
21.0	5776	5757	5748	5725						
24.0	5652	5637	5623	5601						
27.0	5513	5494	5482	5458						
30.0	5358	5340	5327	5306						
33.0	5192	5171	5161	5140						
36.0	5012	4991	4984	4965						
39.0	4822	4803	4799	4782						
42.0	4630	4612	4610	4598						
45.0	4439	4425	4425	4417						
48.0	4257	4242	4249	4244						
51.0	4059	4046	4060	4056						
54.0	3844	3836	3851	3847						
57.0	3620	3620	3630	3630						
60.0	3397	3397	3410	3410						
63.0	3177	3177	3192	3193						
66.0	2962	2963	2975	2977						

**H(B) Range:-90 - 90DEG**  
**H(B) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**

**Photometric Data Table [cd]**

69.0	2752	2756	2763	2769
72.0	2557	2559	2564	2568
75.0	2386	2390	2390	2395
78.0	2220	2218	2222	2225
81.0	2056	2051	2067	2069
84.0	1855	1851	1867	1867
87.0	1670	1668	1678	1678
90.0	1485	1480	1491	1491
93.0	1302	1279	1299	1305
96.0	1096	1078	1089	1110
99.0	925.4	906.6	926.4	960.6
102.0	730.8	704.9	773.7	835.6
105.0	557.5	500.8	599.3	679.6
108.0	384.1	318.8	453.3	529.4
111.0	241.6	179.8	329.8	397.4
114.0	161.9	107.6	224.9	284.6
117.0	116.6	64.74	138.0	188.6
120.0	101.6	58.53	74.97	112.9
123.0	108.8	59.77	53.67	63.60
126.0	90.23	70.92	55.49	54.71
129.0	85.58	68.46	54.36	55.17
132.0	89.30	57.48	55.79	56.01
135.0	70.25	58.63	57.71	57.63
138.0	60.97	60.96	59.81	59.40
141.0	61.67	63.12	61.69	61.09
144.0	63.35	64.33	64.12	63.08
147.0	64.82	65.00	65.95	64.43
150.0	65.42	65.59	66.42	65.65
153.0	66.80	67.28	67.20	67.10
156.0	68.43	69.41	68.82	68.54
159.0	70.85	70.05	70.15	69.98
162.0	72.00	71.45	71.00	71.07
165.0	73.06	72.90	72.55	72.57
168.0	75.22	74.21	74.53	74.52
171.0	75.76	75.37	75.67	75.70
174.0	76.56	76.45	76.67	76.94
177.0	77.37	77.23	77.12	76.81
180.0	77.85	77.69	77.62	77.38

**H( $\beta$ ) Range:-90 - 90DEG**  
**H( $\beta$ ) Interval: 0.5DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:HSO**  
**Test Date:11 August 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\_DD**

50% Beam Angle : 127▲-H X 126▲-V one-half-peak spread: U:62.9,D:61.5 , L:62.9,R:64.8

TOTAL FLUX : 24662 lm

LOR : 100.0%

AVAILABILITY FLUX : 23942 lm

AVAILABILITY : 97.1%

