

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	365.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	145.2V x 153.1H
	At 50% of Imax	108.2V x 114.4H
	At 90% of Imax	53.2V x 54.6H

Beam Flux	Total	1000.0 lumens per klm.
	To 10% of Imax	970.6 lumens per klm.
	To 50% of Imax	780.5 lumens per klm.
	To 90% of Imax	234.3 lumens per klm.

Upward LOR	1.5 %
Downward LOR	98.5 %

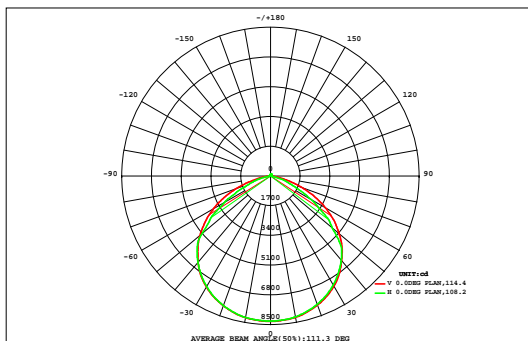
Luminaire Efficiency(Light Output Ratio)	100.0 %
--	---------

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



DATA OF LAMP		Eff:149.34lm/W	
MODENTB150-2835 인증시료		Imax(cd)	8312
NOMINAL POWER(W)	150	AVAILABILITY(%)	97.1
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	22085
NOMINAL FLUX(lm)	22755.2	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	22755
TEST VOLTAGE(V)	220	θ @50%(H,V)	114,108DEG

VERTICAL(DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.06	0.19	0.33	0.46	0.58	0.67	0.74	0.78	0.79	0.78	0.74	0.68	0.60	0.51	0.41	0.29	0.18	0.06	8.87	0.00
90	0.06	0.32	1.09	2.63	4.81	7.34	9.86	11.6	12.5	12.1	10.7	8.66	6.06	3.69	1.90	0.73	0.23	0.06	94.4	18.3
80	0.08	0.97	4.72	12.0	21.4	32.2	41.8	48.9	52.4	51.8	47.2	39.5	29.7	19.2	10.2	3.75	0.65	0.07	417	372
70	0.13	2.37	11.5	28.0	49.1	70.9	90.8	105	112	111	103	87.7	67.5	45.9	25.4	9.85	1.81	0.09	921	908
60	0.20	4.31	19.5	45.7	77.4	111	139	159	169	169	157	136	107	73.6	42.7	17.4	3.52	0.14	1430	1423
50	0.29	6.29	26.7	59.6	98.2	137	169	192	204	203	191	166	133	94.3	56.2	24.4	5.30	0.20	1767	1762
40	0.38	7.97	32.3	69.3	112	154	189	214	227	226	212	187	150	108	66.0	29.8	6.89	0.27	1994	1990
30	0.45	9.20	36.0	75.8	121	166	203	229	242	241	227	200	162	118	72.8	33.6	8.07	0.32	2144	2140
20	0.50	9.86	38.0	79.3	126	172	209	236	249	248	234	207	169	123	76.5	35.7	8.71	0.36	2223	2219
10	0.50	9.90	38.1	79.4	126	172	209	236	249	249	236	208	170	124	76.9	35.9	8.76	0.36	2229	2226
0	0.47	9.31	36.4	76.3	122	166	204	230	244	243	229	202	164	120	74.0	34.1	8.19	0.33	2163	2160
-10	0.40	8.17	32.8	70.2	113	156	192	217	230	230	216	190	153	111	67.8	30.6	7.08	0.27	2024	2020
-20	0.31	6.56	27.6	61.0	100	139	173	197	209	208	195	171	137	97.3	58.3	25.4	5.52	0.21	1810	1805
-30	0.22	4.70	20.8	48.7	81.9	116	147	168	178	178	166	143	113	77.9	45.0	18.4	3.71	0.15	1510	1503
-40	0.14	2.81	13.0	32.3	56.0	81.0	102	117	124	123	114	96.7	74.9	50.6	27.6	10.7	1.99	0.10	1028	1016
-50	0.09	1.26	5.96	15.2	27.4	40.2	51.4	59.8	63.3	62.1	56.6	46.9	35.3	22.8	11.8	4.31	0.78	0.07	505	472
-60	0.07	0.42	1.67	4.15	7.71	11.5	15.0	17.6	18.6	18.0	16.0	12.6	8.94	5.50	2.67	0.98	0.28	0.07	142	50.9
-70	0.06	0.21	0.38	0.59	0.74	0.89	0.95	1.00	1.02	1.00	0.94	0.86	0.75	0.62	0.48	0.33	0.19	0.06	11.1	0.00
-80	0.06	0.21	0.38	0.59	0.74	0.89	0.95	1.00	1.02	1.00	0.94	0.86	0.75	0.62	0.48	0.33	0.19	0.06	11.1	0.00
-90	0.06	0.21	0.38	0.59	0.74	0.89	0.95	1.00	1.02	1.00	0.94	0.86	0.75	0.62	0.48	0.33	0.19	0.06	11.1	0.00
HORIZONTAL(DEG)																				
Φ t	4.42	84.8	347	761	1246	1733	2147	2439	2585	2575	2410	2104	1681	1195	717	316	71.8	3.19	22421	---
Φ a	0.00	57.7	327	740	1224	1712	2127	2422	2570	2559	2393	2084	1660	1173	696	296	44.9	0.00	---	22085

one-half-peak spread: U:55.3,D:53.3 , L:57.9,R:56.9

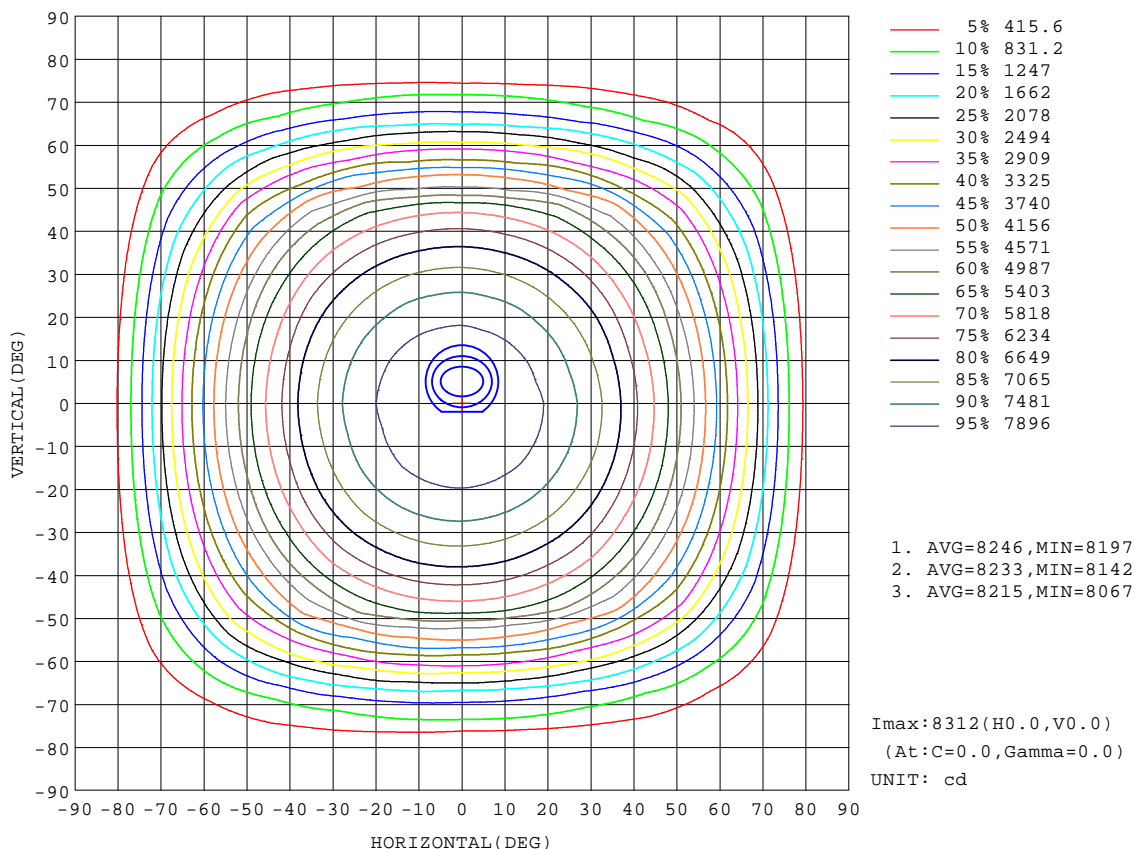
NEMA Beam Type: Type 7

H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

ISOCANDELA DIAGRAM

Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

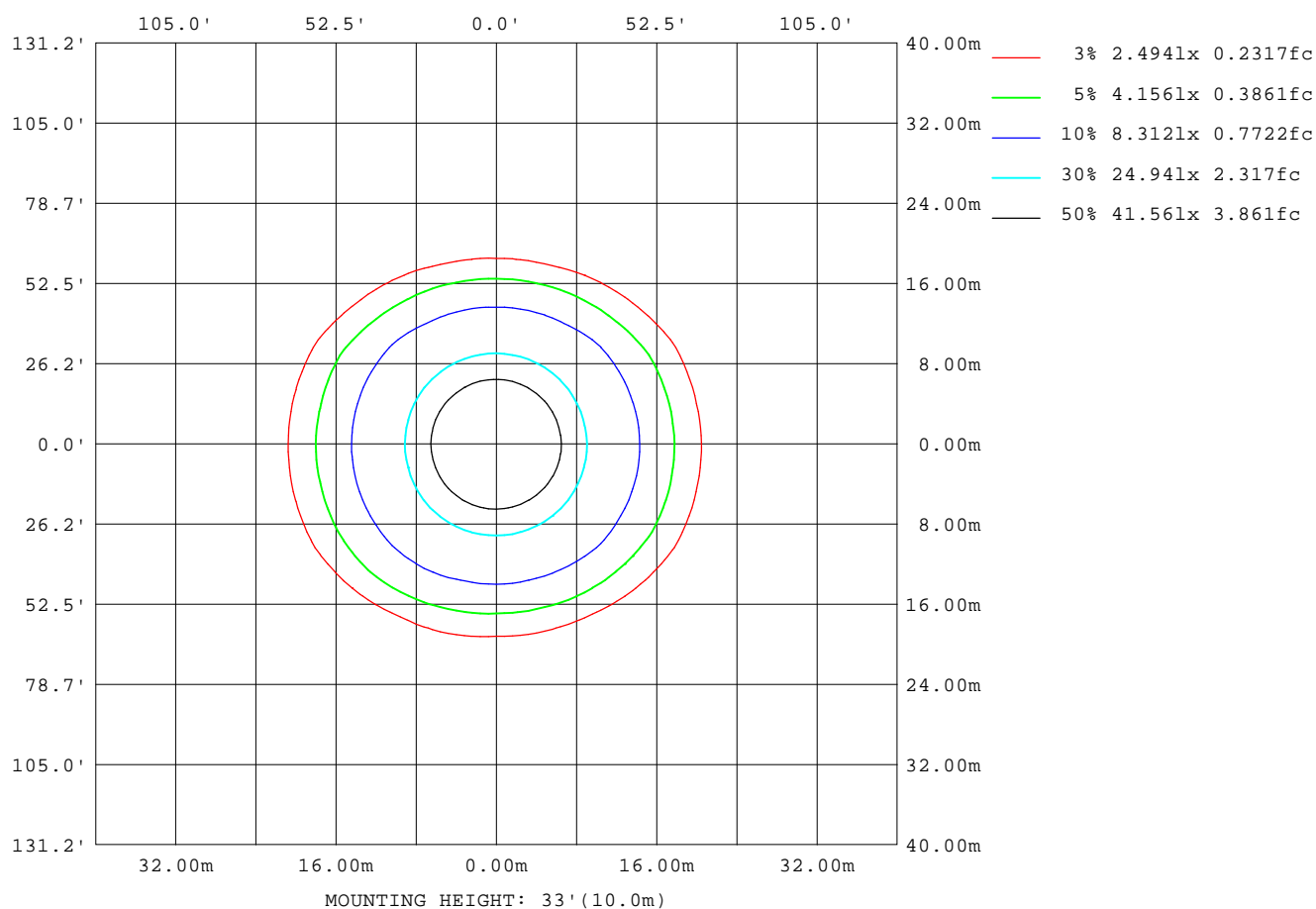


H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

ISOLUX DIAGRAM

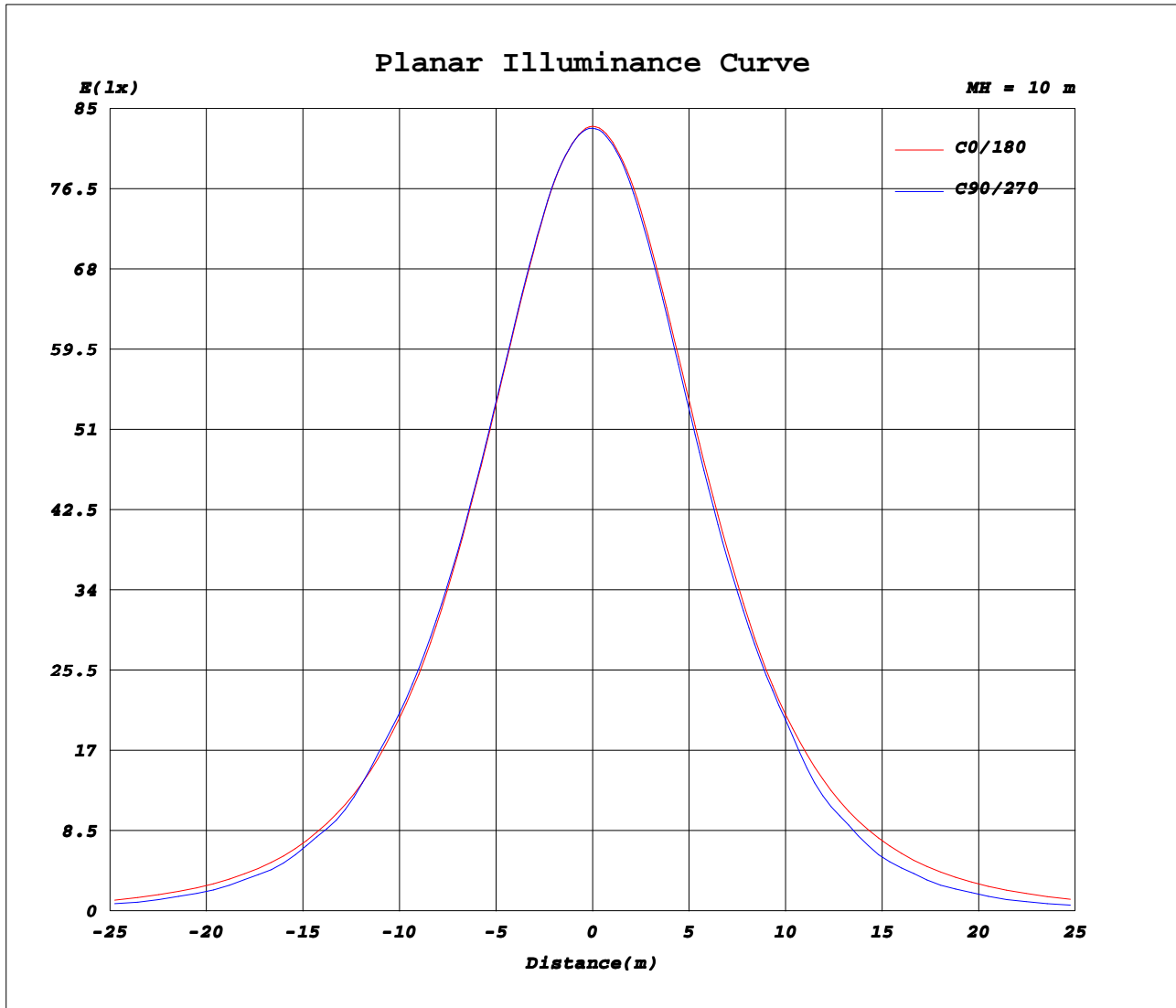
Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

Planar Illuminance Curve



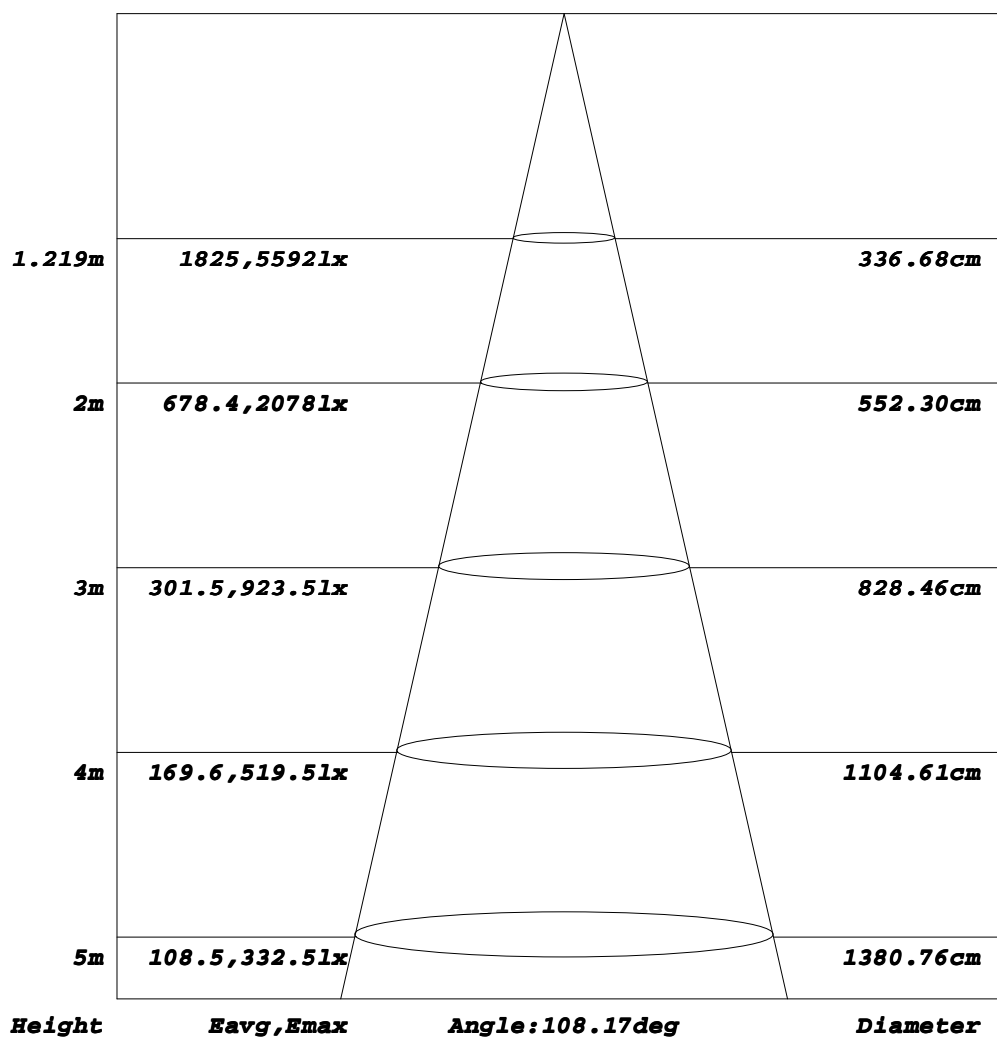
H(β) Range:-90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

AAI Figure

Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Flux out:17387 lm



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

H(β) Range: -90 - 90DEG
H(β) Interval: 0.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KAR
Test Date: 08 September 2021

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: NTB150-2835 인증시료

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	22.6	26.2	30.5	35.2	40.3	45.7	51.2	56.5	61.6	66.5	71.4	76.3	81.1	85.8	90.3	94.3	97.5	99.9	102
-170	22.6	26.2	30.5	35.2	40.3	45.6	51.0	56.3	61.3	66.2	71.0	75.7	80.2	84.3	88.1	91.6	94.4	96.4	96.9
-160	22.6	26.1	30.2	34.8	39.6	44.7	49.8	54.9	59.5	63.8	67.8	71.6	75.2	78.7	81.7	84.4	86.5	87.8	88.2
-150	22.6	25.8	29.7	33.9	38.4	43.0	47.5	51.8	55.8	59.5	62.9	66.1	69.0	71.7	74.0	75.9	77.4	78.3	78.7
-140	22.6	25.5	28.9	32.6	36.6	40.4	44.0	47.6	51.0	54.3	57.2	59.8	62.2	64.4	66.2	67.6	68.7	69.5	69.9
-130	22.6	25.1	28.0	31.1	34.3	37.2	40.0	42.8	45.5	48.1	50.4	52.6	54.6	56.3	57.7	58.9	59.7	60.4	60.6
-120	22.6	24.6	26.9	29.3	31.6	33.6	35.7	37.7	39.5	41.3	43.0	44.5	45.9	47.1	48.1	48.9	49.5	49.9	50.1
-110	22.6	24.1	25.7	27.4	28.8	30.1	31.3	32.5	33.6	34.6	35.5	36.4	37.1	37.8	38.3	38.7	39.0	39.2	39.3
-100	22.6	23.5	24.5	25.5	26.1	26.6	27.2	27.6	28.0	28.3	28.6	28.9	29.1	29.3	29.4	29.5	29.6	29.6	29.6
-90	22.6	23.2	23.7	24.2	24.4	24.7	24.9	24.8	24.8	24.7	24.4	24.0	23.7	23.5	23.3	23.2	23.0	22.8	22.6
-80	22.6	23.3	25.5	31.8	37.5	42.6	49.9	67.4	71.2	61.5	80.3	79.1	58.2	59.6	65.5	51.5	50.7	50.3	49.4
-70	22.6	24.4	38.8	76.6	152	249	342	481	602	707	807	921	980	1073	1130	1163	1198	1199	1175
-60	22.6	27.8	74.2	212	434	685	985	1334	1614	1915	2159	2447	2593	2714	2929	3004	3065	3097	3076
-50	22.6	34.2	138	415	821	1274	1772	2378	2834	3215	3713	4096	4332	4667	4877	4988	5108	5151	5106
-40	22.6	44.2	222	639	1217	1854	2532	3153	3743	4265	4753	5177	5556	5857	6089	6262	6383	6447	6458
-30	22.6	56.7	309	842	1561	2328	3072	3766	4404	4996	5494	5959	6362	6669	6907	7086	7216	7288	7307
-20	22.6	67.7	382	1011	1827	2673	3474	4221	4873	5500	6020	6514	6904	7219	7470	7656	7787	7860	7885
-10	22.6	74.7	425	1118	1992	2870	3703	4480	5172	5793	6332	6831	7212	7528	7776	7972	8111	8179	8213
0	22.6	77.2	436	1149	2045	2931	3778	4565	5268	5892	6443	6951	7332	7652	7895	8097	8224	8285	8312
10	22.6	73.6	416	1111	1979	2853	3685	4461	5155	5771	6316	6818	7199	7515	7758	7954	8081	8153	8176
20	22.6	65.8	365	998	1799	2636	3433	4181	4836	5455	5976	6469	6848	7151	7394	7585	7716	7780	7807
30	22.6	54.4	287	816	1524	2275	3012	3704	4340	4923	5420	5872	6254	6551	6792	6972	7093	7163	7186
40	22.6	41.9	199	584	1180	1777	2381	3056	3649	4130	4633	5040	5410	5702	5928	6095	6205	6275	6292
50	22.6	32.0	121	358	756	1182	1619	2082	2596	3001	3303	3674	4031	4167	4391	4506	4547	4617	4601
60	22.6	26.4	63.3	170	357	572	827	1097	1352	1566	1825	2022	2177	2384	2481	2548	2639	2680	2654
70	22.6	23.8	33.0	57.6	108	181	263	332	451	539	606	718	796	860	920	969	999	1015	1016
80	22.6	23.0	24.3	26.6	29.7	32.6	31.9	34.3	39.5	36.3	36.3	37.9	37.6	37.7	37.8	37.6	37.8	37.7	37.2
90	22.6	22.8	23.0	23.1	23.1	23.0	23.0	22.9	22.8	22.7	22.5	22.3	22.2	22.0	21.9	21.8	21.6	21.4	21.3
100	22.6	23.3	24.0	24.7	25.3	25.9	26.4	26.9	27.4	27.8	28.2	28.4	28.7	28.9	29.1	29.2	29.2	29.2	29.1
110	22.6	23.8	25.2	26.6	27.9	29.2	30.5	31.7	32.9	34.0	35.0	35.9	36.6	37.3	37.9	38.3	38.7	38.9	38.9
120	22.6	24.4	26.4	28.5	30.6	32.7	34.7	36.8	38.7	40.6	42.4	44.0	45.4	46.6	47.7	48.6	49.2	49.6	49.7
130	22.6	24.9	27.5	30.3	33.2	36.1	38.9	41.8	44.6	47.2	49.7	52.0	54.0	55.8	57.3	58.5	59.4	60.0	60.2
140	22.6	25.3	28.5	32.0	35.5	39.2	42.8	46.5	50.0	53.3	56.4	59.1	61.6	63.8	65.7	67.3	68.5	69.2	69.5
150	22.6	25.7	29.4	33.3	37.5	41.8	46.2	50.5	54.6	58.4	61.9	65.3	68.4	71.2	73.7	75.7	77.3	78.3	78.5
160	22.6	26.0	30.0	34.4	39.0	43.9	48.8	53.6	58.1	62.4	66.5	70.5	74.4	78.0	81.3	84.1	86.3	87.7	88.1
170	22.6	26.1	30.4	35.0	40.0	45.2	50.5	55.7	60.5	65.2	69.9	74.5	79.0	83.3	87.5	91.2	94.3	96.3	96.7
180	22.6	26.2	30.5	35.2	40.3	45.7	51.2	56.5	61.6	66.5	71.4	76.3	81.1	85.8	90.3	94.3	97.5	99.9	102

H(β) Range:-90 - 90DEG

H(β) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:KAR

Test Date:08 September 2021

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: NTB150-2835 인증시료

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:219.5V I:0.7145A P:152.4W PF:0.9717 Lamp Flux:22755.2x1 lm		
NAME: NTB150-2835 인증시료	TYPE:LED	WEIGHT:
SPEC.:NTB150-2835 인증시료	DIM.:	SERIAL No.:
MFR.: ICEPIPE	SUR.:	Shielding Angle:

Table--2

UNIT: cd

H(DEG) V(DEG)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	
-180	100	98.2	95.4	91.7	87.7	83.4	78.8	74.1	69.3	64.5	59.5	54.2	48.7	43.2	38.0	33.2	28.7	24.7	
-170	95.8	94.0	91.5	88.3	84.6	80.7	76.5	72.2	67.8	63.2	58.4	53.3	48.0	42.7	37.7	32.9	28.6	24.7	
-160	87.5	86.2	84.3	81.8	79.0	75.8	72.4	68.7	64.8	60.6	56.1	51.3	46.4	41.6	36.9	32.4	28.3	24.7	
-150	78.4	77.6	76.3	74.6	72.5	70.0	67.2	64.1	60.6	56.8	52.7	48.5	44.1	39.8	35.7	31.7	28.0	24.7	
-140	69.8	69.2	68.3	67.0	65.3	63.2	60.8	58.2	55.2	51.9	48.4	44.9	41.2	37.6	34.1	30.7	27.5	24.7	
-130	60.5	60.1	59.3	58.3	56.9	55.3	53.3	51.2	48.7	46.2	43.5	40.7	37.9	35.1	32.3	29.6	27.0	24.7	
-120	50.0	49.7	49.1	48.4	47.5	46.3	45.0	43.5	41.8	40.1	38.2	36.3	34.3	32.2	30.2	28.3	26.4	24.7	
-110	39.3	39.1	38.8	38.4	37.9	37.3	36.6	35.8	34.8	33.9	32.8	31.7	30.5	29.3	28.1	26.9	25.8	24.7	
-100	29.6	29.5	29.4	29.3	29.2	29.0	28.8	28.6	28.3	28.0	27.7	27.4	26.9	26.5	26.1	25.6	25.2	24.7	
-90	22.5	22.4	22.3	22.3	22.3	22.3	22.5	22.6	22.8	23.0	23.3	23.5	23.8	24.0	24.2	24.4	24.5	24.7	
-80	49.0	48.2	47.1	46.9	45.1	44.2	44.9	41.0	39.8	40.7	34.8	32.5	31.5	28.5	26.2	24.7	24.2	24.7	
-70	1169	1145	1104	1049	957	878	796	674	575	467	336	248	162	83.9	48.4	28.7	24.5	24.7	
-60	3061	3006	2912	2746	2584	2421	2142	1934	1652	1382	1072	787	520	312	130	47.3	25.4	24.7	
-50	5094	4990	4854	4685	4410	4153	3880	3393	3039	2614	2044	1563	1103	670	298	87.4	27.4	24.7	
-40	6428	6345	6205	6012	5765	5448	5064	4628	4129	3593	2992	2301	1680	1073	498	146	31.1	24.7	
-30	7272	7184	7037	6840	6590	6268	5856	5391	4867	4276	3621	2898	2154	1406	706	215	37.6	24.7	
-20	7849	7765	7619	7417	7156	6834	6420	5924	5390	4757	4078	3319	2493	1662	874	280	43.8	24.7	
-10	8177	8098	7953	7746	7489	7164	6757	6233	5696	5039	4345	3549	2697	1820	976	324	47.8	24.7	
0	8274	8209	8061	7852	7596	7259	6851	6323	5787	5121	4424	3621	2763	1866	1005	338	49.2	24.7	
10	8126	8040	7892	7685	7421	7094	6682	6168	5640	4986	4302	3515	2674	1800	964	320	47.1	24.7	
20	7756	7673	7522	7316	7057	6741	6316	5824	5291	4664	3987	3248	2442	1628	853	274	42.7	24.7	
30	7144	7053	6907	6710	6451	6125	5716	5271	4739	4163	3512	2812	2088	1358	688	207	36.4	24.7	
40	6253	6160	6026	5839	5582	5251	4878	4458	3959	3442	2868	2199	1604	1016	480	138	30.0	24.7	
50	4595	4503	4443	4307	4050	3896	3521	3135	2835	2433	1921	1465	1024	638	274	78.5	26.5	24.7	
60	2659	2595	2482	2404	2284	2068	1895	1690	1433	1220	966	704	480	275	113	40.5	24.5	24.7	
70	1002	972	929	872	804	731	641	533	462	362	272	195	124	65.9	36.8	26.2	23.6	24.7	
80	37.0	36.4	35.5	35.1	34.4	33.5	32.6	31.5	30.2	30.2	28.0	26.6	26.0	24.4	23.2	22.9	23.4	24.7	
90	21.3	21.2	21.2	21.2	21.3	21.3	21.5	21.6	21.7	21.8	21.9	22.0	22.1	22.2	22.4	23.1	23.9	24.7	
100	29.1	29.1	28.9	28.8	28.6	28.3	28.0	27.7	27.3	26.8	26.3	25.8	25.3	24.7	24.2	24.4	24.5	24.7	
110	38.9	38.7	38.4	37.9	37.3	36.6	35.8	34.9	33.8	32.7	31.4	30.1	28.8	27.5	26.3	25.7	25.2	24.7	
120	49.6	49.3	48.7	47.9	46.8	45.6	44.1	42.5	40.7	38.8	36.7	34.6	32.5	30.4	28.6	27.2	25.9	24.7	
130	60.0	59.5	58.7	57.5	56.1	54.4	52.4	50.1	47.5	44.8	41.9	39.0	36.0	33.1	30.8	28.6	26.5	24.7	
140	69.3	68.7	67.6	66.1	64.3	62.2	59.7	56.9	53.7	50.3	46.8	43.0	39.3	35.9	32.8	29.9	27.1	24.7	
150	78.2	77.3	75.8	73.9	71.6	68.9	65.8	62.5	58.9	55.1	50.9	46.5	42.4	38.5	34.6	31.0	27.7	24.7	
160	87.4	86.0	83.9	81.2	78.1	74.6	70.9	67.0	62.9	58.6	54.3	49.8	45.2	40.6	36.2	32.0	28.1	24.7	
170	95.6	93.7	90.9	87.3	83.4	79.2	75.0	70.8	66.5	62.1	57.5	52.5	47.3	42.2	37.3	32.7	28.5	24.7	
180	100	98.2	95.4	91.7	87.7	83.4	78.8	74.1	69.3	64.5	59.5	54.2	48.7	43.2	38.0	33.2	28.7	24.7	

H(β) Range:-90 - 90DEG

H(β) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:KAR

Test Date:08 September 2021

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: NTB150-2835 인증시료

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	8312	8309	8300	8298	8295	8295	8292	8289	8287	8281
3.0	8295	8290	8288	8287	8287	8287	8286	8286	8283	8281
6.0	8263	8263	8258	8257	8257	8257	8262	8261	8260	8255
9.0	8225	8220	8213	8216	8214	8223	8229	8227	8222	8212
12.0	8162	8157	8150	8156	8154	8166	8173	8170	8159	8160
15.0	8061	8061	8064	8071	8061	8074	8079	8080	8078	8090
18.0	7941	7942	7949	7961	7955	7960	7968	7969	7975	7987
21.0	7805	7813	7810	7819	7823	7831	7839	7841	7849	7858
24.0	7653	7655	7654	7658	7674	7673	7684	7689	7701	7701
27.0	7468	7476	7477	7483	7489	7495	7507	7516	7529	7528
30.0	7259	7273	7271	7281	7286	7295	7307	7320	7329	7340
33.0	7030	7049	7041	7053	7053	7068	7081	7100	7105	7123
36.0	6752	6782	6792	6798	6800	6820	6832	6853	6860	6878
39.0	6429	6464	6501	6521	6526	6546	6560	6584	6591	6605
42.0	6111	6131	6164	6222	6223	6247	6257	6286	6296	6311
45.0	5787	5803	5805	5882	5893	5921	5932	5959	5973	5982
48.0	5400	5436	5443	5500	5536	5571	5612	5612	5621	5612
51.0	4983	5014	5054	5088	5156	4931	4861	5070	5244	5199
54.0	4572	4593	4608	4668	4483	4277	4295	4357	4753	4781
57.0	4099	4148	4150	4219	3847	3768	3693	3912	3999	4357
60.0	3621	3646	3684	3469	3247	3087	3076	3187	3490	3836
63.0	3101	3140	3162	2903	2611	2458	2395	2616	2737	3100
66.0	2586	2610	2588	2203	1941	1904	1837	2019	2204	2553
69.0	2051	2075	1904	1641	1361	1352	1330	1414	1616	1854
72.0	1514	1547	1337	1081	940.1	979.9	990.6	1016	1081	1279
75.0	1005	1046	802.6	645.0	668.8	636.0	646.8	700.9	728.4	790.4
78.0	563.9	565.9	409.5	386.7	257.0	190.7	163.5	265.9	397.7	482.3
81.0	244.2	237.7	187.5	84.70	44.87	44.18	44.63	46.42	60.39	203.4
84.0	73.82	67.86	36.52	34.76	33.16	32.99	33.47	35.18	37.62	40.23
87.0	25.87	26.95	26.74	26.96	27.05	27.36	27.78	28.40	28.91	29.54
90.0	24.68	24.22	23.52	22.77	22.34	22.33	22.64	23.15	23.72	24.70
93.0	27.01	26.38	25.76	24.95	24.34	23.87	23.89	24.14	24.67	25.15
96.0	29.54	28.87	28.19	27.37	26.74	26.23	26.21	26.42	26.95	27.44
99.0	32.24	31.55	30.85	29.98	29.33	28.76	28.73	28.89	29.43	29.92
102.0	35.06	34.41	33.66	32.80	32.09	31.55	31.43	31.60	32.09	32.63
105.0	38.05	37.35	36.60	35.73	34.98	34.44	34.27	34.43	34.89	35.46
108.0	41.14	40.41	39.65	38.79	38.01	37.43	37.24	37.36	37.83	38.42
111.0	44.31	43.53	42.77	41.92	41.17	40.54	40.33	40.42	40.89	41.46
114.0	47.57	46.75	45.93	45.11	44.37	43.76	43.55	43.59	44.03	44.55
117.0	50.86	49.97	49.12	48.29	47.60	47.02	46.79	46.81	47.21	47.70
120.0	54.18	53.22	52.36	51.55	50.86	50.28	50.09	50.04	50.39	50.86
123.0	57.38	56.41	55.56	54.74	54.12	53.55	53.34	53.26	53.56	53.95
126.0	60.51	59.51	58.64	57.85	57.26	56.75	56.52	56.39	56.65	56.95
129.0	63.51	62.47	61.63	60.85	60.27	59.81	59.59	59.44	59.58	59.86
132.0	66.43	65.38	64.52	63.76	63.19	62.76	62.58	62.35	62.43	62.69
135.0	69.34	68.22	67.30	66.55	66.03	65.59	65.38	65.16	65.21	65.45
138.0	72.20	71.03	70.04	69.27	68.76	68.35	68.13	67.86	67.91	68.23
141.0	75.07	73.85	72.73	71.91	71.40	71.00	70.76	70.50	70.59	71.07
144.0	77.88	76.65	75.41	74.53	74.00	73.54	73.38	73.10	73.34	73.91
147.0	80.65	79.45	78.14	77.16	76.58	76.13	75.97	75.81	76.20	76.80
150.0	83.35	82.20	80.86	79.85	79.25	78.80	78.70	78.70	79.13	79.70
153.0	85.96	84.92	83.65	82.55	81.91	81.48	81.49	81.58	82.03	82.56
156.0	88.51	87.58	86.37	85.27	84.66	84.28	84.34	84.50	84.93	85.40
159.0	90.96	90.16	89.07	88.06	87.41	87.12	87.21	87.41	87.79	88.32
162.0	93.28	92.63	91.64	90.76	90.17	89.90	90.00	90.21	90.65	91.12
165.0	95.40	94.89	94.02	93.29	92.83	92.65	92.80	93.03	93.38	93.71
168.0	97.20	96.83	96.12	95.54	95.24	95.21	95.37	95.59	95.82	95.96
171.0	98.69	98.44	97.93	97.52	97.34	97.47	97.66	97.83	97.90	97.78
174.0	99.86	99.71	99.43	99.20	99.18	99.40	99.62	99.71	99.50	99.25
177.0	100.6	100.6	100.5	100.4	100.5	100.9	101.2	101.0	100.5	100.2
180.0	100.9	100.9	100.8	100.9	101.1	101.6	101.7	101.4	100.9	100.7
G/C	150.0	165.0	180.0	195.0	210.0	225.0	240.0	255.0	270.0	285.0
0.0	8279	8273	8312	8309	8300	8298	8295	8295	8292	8289
3.0	8272	8269	8304	8296	8291	8286	8285	8280	8281	8273
6.0	8249	8239	8277	8265	8260	8253	8255	8251	8249	8234
9.0	8208	8204	8236	8222	8215	8207	8206	8203	8201	8186
12.0	8150	8152	8184	8165	8154	8140	8132	8123	8120	8106
15.0	8073	8069	8077	8071	8050	8034	8034	8021	8019	7999
18.0	7967	7953	7980	7965	7956	7939	7918	7902	7900	7878
21.0	7840	7828	7853	7830	7817	7798	7788	7760	7756	7735
24.0	7693	7678	7708	7684	7662	7636	7627	7594	7591	7568
27.0	7526	7510	7533	7512	7489	7455	7443	7409	7399	7381
30.0	7333	7314	7332	7311	7286	7249	7230	7196	7186	7165

H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:KAR

Test Date:08 September 2021

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: NTB150-2835 인증시료

Photometric Data Table [cd]

33.0	7107	7095	7112	7086	7058	7024	6995	6961	6944	6924
36.0	6864	6851	6860	6836	6810	6769	6737	6699	6684	6666
39.0	6593	6558	6558	6543	6535	6488	6456	6415	6394	6373
42.0	6272	6223	6219	6199	6219	6182	6148	6102	6079	6053
45.0	5910	5890	5892	5856	5851	5847	5810	5763	5733	5712
48.0	5542	5546	5538	5508	5474	5474	5448	5194	5057	5144
51.0	5177	5138	5128	5107	5094	5053	4907	4497	4453	4446
54.0	4746	4703	4704	4669	4665	4620	4191	4069	3931	4014
57.0	4282	4283	4273	4239	4194	4031	3732	3310	3241	3258
60.0	3829	3791	3778	3744	3732	3315	2960	2805	2654	2751
63.0	3316	3311	3296	3256	3213	2773	2427	2164	2109	2114
66.0	2812	2780	2768	2722	2592	2109	1825	1539	1518	1494
69.0	2254	2247	2222	2184	1945	1487	1242	1128	1111	1091
72.0	1575	1704	1676	1648	1344	961.3	856.1	848.9	794.6	804.7
75.0	1030	1190	1149	1148	827.7	598.0	535.7	405.1	324.9	355.3
78.0	574.0	727.1	686.1	644.4	424.6	326.1	157.6	49.29	45.81	46.49
81.0	258.5	350.0	338.2	281.9	195.4	58.23	38.66	34.75	32.84	32.50
84.0	91.80	116.7	114.1	83.05	38.00	30.81	28.25	26.86	25.99	25.57
87.0	30.30	35.45	29.17	27.74	26.10	25.47	24.77	24.20	23.53	22.39
90.0	24.89	24.22	22.63	23.14	22.96	22.67	22.19	21.76	21.28	21.20
93.0	25.69	25.78	24.64	25.02	24.99	24.71	24.22	23.83	23.36	23.36
96.0	27.98	28.19	26.99	27.35	27.22	26.98	26.49	26.11	25.71	25.75
99.0	30.55	30.83	29.58	29.88	29.70	29.46	28.96	28.60	28.25	28.34
102.0	33.25	33.63	32.33	32.56	32.37	32.12	31.62	31.29	30.99	31.08
105.0	36.10	36.53	35.21	35.37	35.20	34.88	34.43	34.07	33.85	33.95
108.0	39.05	39.55	38.22	38.31	38.11	37.80	37.35	37.01	36.83	36.99
111.0	42.11	42.64	41.35	41.36	41.12	40.83	40.40	40.09	39.95	40.14
114.0	45.21	45.81	44.58	44.49	44.19	43.93	43.52	43.27	43.16	43.36
117.0	48.35	49.00	47.85	47.66	47.33	47.07	46.71	46.49	46.43	46.62
120.0	51.49	52.21	51.16	50.84	50.47	50.24	49.89	49.74	49.71	49.89
123.0	54.58	55.39	54.39	53.97	53.54	53.31	53.04	52.96	52.95	53.11
126.0	57.59	58.46	57.55	57.02	56.55	56.32	56.12	56.10	56.11	56.24
129.0	60.49	61.42	60.60	59.99	59.47	59.24	59.06	59.12	59.19	59.26
132.0	63.37	64.37	63.58	62.90	62.34	62.09	61.92	61.98	62.13	62.16
135.0	66.23	67.27	66.53	65.81	65.19	64.88	64.74	64.83	64.97	65.03
138.0	69.09	70.19	69.49	68.76	68.08	67.70	67.48	67.59	67.76	67.81
141.0	71.95	73.08	72.44	71.73	71.00	70.56	70.26	70.30	70.44	70.51
144.0	74.84	75.97	75.35	74.68	73.93	73.44	73.06	73.02	73.10	73.21
147.0	77.70	78.86	78.22	77.60	76.81	76.33	75.87	75.79	75.75	75.86
150.0	80.62	81.68	81.09	80.52	79.74	79.26	78.80	78.66	78.55	78.57
153.0	83.46	84.43	83.92	83.41	82.66	82.17	81.73	81.59	81.43	81.39
156.0	86.28	87.12	86.68	86.26	85.58	85.06	84.67	84.48	84.35	84.25
159.0	89.07	89.75	89.40	89.03	88.48	87.95	87.53	87.35	87.18	87.05
162.0	91.69	92.25	92.00	91.71	91.26	90.83	90.37	90.14	89.98	89.79
165.0	94.11	94.43	94.32	94.09	93.87	93.54	93.16	92.87	92.66	92.52
168.0	96.09	96.34	96.31	96.11	95.99	95.90	95.66	95.42	95.16	95.04
171.0	97.78	97.93	98.02	97.84	97.82	97.85	97.86	97.68	97.43	97.26
174.0	99.20	99.24	99.50	99.34	99.33	99.41	99.60	99.65	99.44	99.24
177.0	100.1	100.1	100.5	100.4	100.4	100.5	100.8	101.1	101.0	100.8
180.0	100.5	100.5	101.0	100.9	100.9	100.9	101.2	101.5	101.7	101.4
G/C	300.0	315.0	330.0	345.0						
0.0	8287	8281	8279	8273						
3.0	8268	8261	8259	8255						
6.0	8231	8223	8225	8221						
9.0	8180	8171	8174	8175						
12.0	8102	8103	8107	8109						
15.0	8000	8009	8013	8009						
18.0	7883	7884	7892	7889						
21.0	7745	7734	7746	7755						
24.0	7577	7567	7588	7598						
27.0	7383	7379	7400	7413						
30.0	7164	7169	7189	7205						
33.0	6926	6932	6957	6974						
36.0	6667	6668	6700	6701						
39.0	6375	6382	6395	6379						
42.0	6060	6062	6044	6048						
45.0	5716	5703	5689	5719						
48.0	5348	5300	5327	5343						
51.0	4812	4891	4923	4918						
54.0	4081	4470	4466	4502						
57.0	3600	3883	4020	4047						
60.0	2844	3152	3524	3556						
63.0	2321	2638	3016	3049						
66.0	1730	1960	2429	2534						

H(B) Range:-90 - 90DEG

H(B) Interval: 0.5DEG

Test Speed: HIGH

Temperature:25.3DEG

Operators:KAR

Test Date:08 September 2021

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: NTB150-2835 인증시료

Photometric Data Table [cd]

69.0	1171	1361	1772	2003
72.0	796.4	860.9	1204	1478
75.0	477.7	525.7	710.7	982.9
78.0	103.1	246.5	355.0	545.6
81.0	34.96	39.04	134.0	211.3
84.0	25.72	26.52	29.88	50.56
87.0	22.47	22.59	23.09	23.63
90.0	21.33	21.72	21.99	22.37
93.0	23.53	23.96	24.19	24.47
96.0	25.95	26.41	26.64	26.97
99.0	28.58	29.04	29.33	29.63
102.0	31.37	31.85	32.16	32.43
105.0	34.30	34.77	35.10	35.37
108.0	37.34	37.82	38.13	38.42
111.0	40.49	40.96	41.24	41.54
114.0	43.68	44.15	44.41	44.74
117.0	46.90	47.36	47.62	47.98
120.0	50.17	50.58	50.84	51.24
123.0	53.36	53.73	54.00	54.41
126.0	56.43	56.80	57.07	57.49
129.0	59.41	59.78	60.05	60.48
132.0	62.33	62.66	62.95	63.40
135.0	65.19	65.50	65.75	66.28
138.0	67.92	68.26	68.55	69.20
141.0	70.66	71.00	71.34	72.11
144.0	73.37	73.73	74.16	75.02
147.0	76.04	76.47	76.94	77.88
150.0	78.80	79.24	79.80	80.72
153.0	81.58	82.03	82.65	83.54
156.0	84.40	84.80	85.49	86.31
159.0	87.16	87.62	88.28	89.01
162.0	89.88	90.38	90.94	91.59
165.0	92.61	92.96	93.44	93.94
168.0	95.02	95.24	95.58	95.94
171.0	97.12	97.24	97.45	97.64
174.0	98.99	98.96	99.03	99.10
177.0	100.4	100.2	100.1	100.1
180.0	101.0	100.6	100.6	100.5

H(B) Range:-90 - 90DEG
H(B) Interval: 0.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KAR
Test Date:08 September 2021

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: NTB150-2835 인증시료

50% Beam Angle : 114▲-H X 108▲-V one-half-peak spread: U:55.3,D:53.3 , L:57.9,R:56.9

TOTAL FLUX : 22755 lm

LOR : 100.0%

AVAILABILITY FLUX : 22085 lm

AVAILABILITY : 97.1%

