

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2340.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	62.5V x 63.2H
	At 50% of Imax	32.7V x 33.0H
	At 90% of Imax	13.3V x 13.6H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	798.0 lumens per klm.
	To 50% of Imax	435.0 lumens per klm.
	To 90% of Imax	94.2 lumens per klm.

Upward LOR	2.3 %
Downward LOR	97.7 %

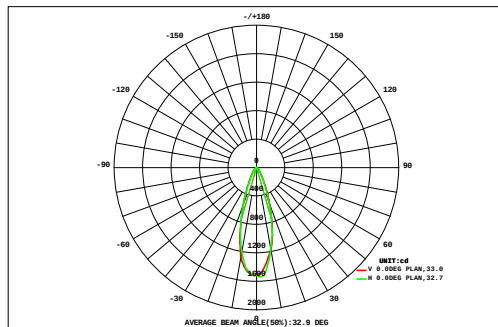
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	Shielding Angle:



DATA OF LAMP		Eff:61.88lm/W	
MODEL		Imax(cd)	1535
NOMINAL POWER(W)	10.6	AVAILABILITY(%)	79.7
RATED VOLTAGE(V)	220	Avai. FLUX(lm)	522.9
NOMINAL FLUX(lm)	656	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	656.0
TEST VOLTAGE(V)	220	q @50%(H,V)	33,33DEG

AREA FLUX DIAGRAM																	UNIT:lm		F t	F a
45	0.09	0.12	0.16	0.21	0.27	0.33	0.38	0.42	0.45	0.46	0.45	0.42	0.37	0.31	0.25	0.20	0.14	0.09	5.12	0.00
40	0.12	0.16	0.22	0.29	0.38	0.47	0.55	0.63	0.67	0.69	0.66	0.61	0.53	0.45	0.36	0.27	0.18	0.12	7.35	0.00
35	0.15	0.21	0.29	0.39	0.52	0.67	0.82	0.96	1.04	1.06	1.00	0.89	0.76	0.62	0.48	0.35	0.24	0.15	10.6	0.79
30	0.18	0.27	0.38	0.53	0.72	0.98	1.27	1.54	1.70	1.71	1.57	1.34	1.09	0.85	0.62	0.43	0.29	0.18	15.7	9.43
25	0.22	0.33	0.49	0.71	1.03	1.49	2.05	2.60	2.95	2.94	2.60	2.08	1.57	1.14	0.78	0.53	0.34	0.22	24.1	19.4
20	0.26	0.40	0.62	0.95	1.47	2.26	3.30	4.33	5.00	4.99	4.29	3.24	2.27	1.52	0.98	0.62	0.39	0.24	37.1	33.3
15	0.30	0.47	0.75	1.21	2.01	3.27	4.86	6.45	7.49	7.48	6.49	4.82	3.22	2.01	1.21	0.71	0.43	0.26	53.4	50.2
10	0.33	0.53	0.87	1.45	2.54	4.27	6.46	8.72	10.0	9.55	8.24	6.43	4.22	2.52	1.42	0.79	0.45	0.27	69.1	66.0
5	0.35	0.57	0.94	1.62	2.89	4.94	7.73	10.3	11.5	10.9	9.32	7.41	4.89	2.88	1.56	0.83	0.46	0.27	79.2	76.5
0	0.35	0.58	0.96	1.65	2.95	5.10	8.02	10.3	11.2	11.1	9.60	7.40	4.90	2.90	1.55	0.81	0.44	0.26	80.0	77.2
-5	0.34	0.55	0.91	1.54	2.70	4.64	7.31	9.36	10.1	9.95	8.50	6.37	4.29	2.56	1.38	0.73	0.41	0.24	71.9	69.0
-10	0.31	0.51	0.82	1.33	2.23	3.69	5.74	7.41	8.01	7.68	6.51	4.91	3.36	2.01	1.11	0.62	0.36	0.22	56.8	53.6
-15	0.28	0.44	0.69	1.08	1.70	2.64	3.79	4.87	5.40	5.24	4.50	3.44	2.33	1.42	0.83	0.50	0.30	0.19	39.7	36.0
-20	0.24	0.37	0.57	0.84	1.24	1.76	2.35	2.89	3.18	3.13	2.74	2.12	1.45	0.93	0.60	0.38	0.24	0.16	25.2	20.9
-25	0.20	0.30	0.45	0.64	0.88	1.14	1.43	1.67	1.79	1.75	1.54	1.23	0.90	0.62	0.42	0.28	0.19	0.13	15.5	9.76
-30	0.16	0.24	0.34	0.47	0.61	0.75	0.88	0.98	1.02	0.99	0.88	0.73	0.56	0.41	0.29	0.21	0.14	0.10	9.75	0.69
-35	0.12	0.18	0.25	0.33	0.41	0.49	0.56	0.60	0.61	0.58	0.53	0.45	0.36	0.28	0.20	0.15	0.11	0.07	6.28	0.00
-40	0.08	0.12	0.17	0.23	0.28	0.32	0.36	0.38	0.38	0.36	0.33	0.29	0.24	0.19	0.14	0.10	0.08	0.05	4.11	0.00
-45	0.08	0.12	0.17	0.23	0.28	0.32	0.36	0.38	0.38	0.36	0.33	0.29	0.24	0.19	0.14	0.10	0.08	0.05	4.11	0.00
	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)	10	15	20	25	30	35	40	45			
F t	4.07	6.37	9.88	15.5	24.8	39.2	57.9	74.3	82.5	80.5	69.7	54.2	37.3	23.6	14.2	8.50	5.20	3.20	611	---
F a	0.00	0.00	1.40	9.60	20.1	34.9	53.9	70.6	78.8	76.8	66.0	50.3	33.0	18.8	8.14	0.42	0.00	0.00	---	523

one-half-peak spread: U:18.7,D:14.2 , L:15.7,R:17.5

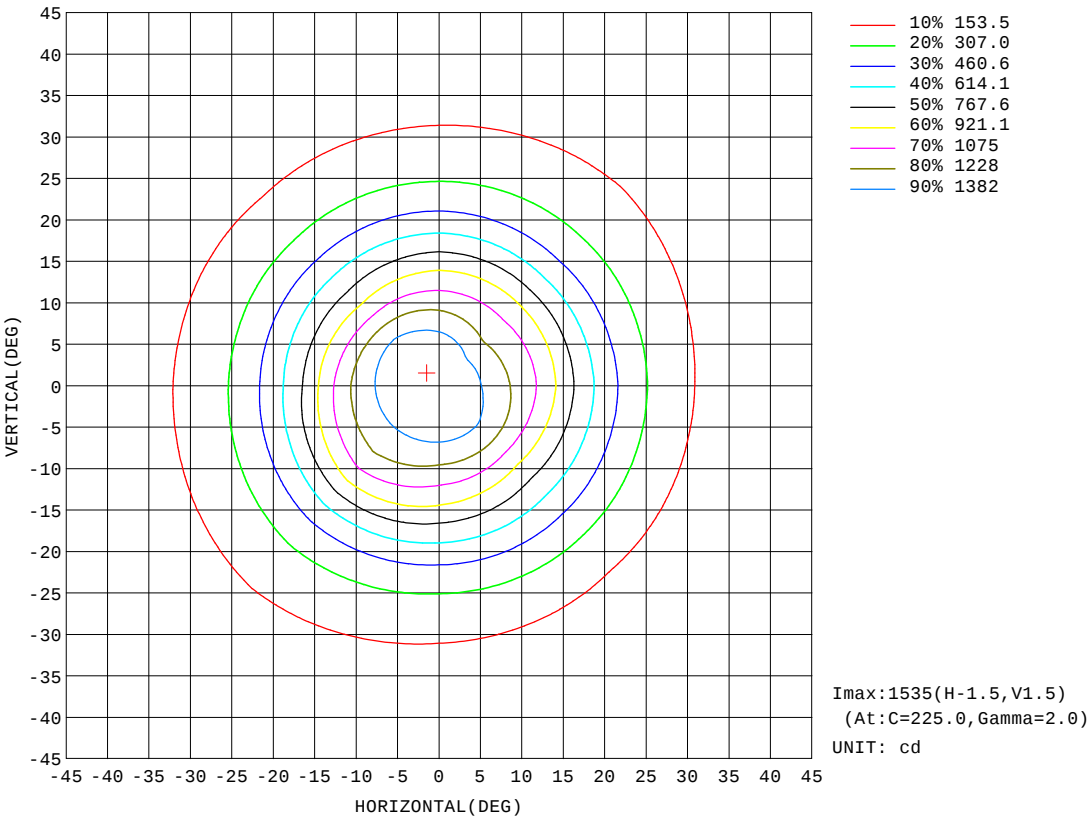
NEMA Beam Type: Type 4

H_b Range:-90 - 90DEG
H_b Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	Shielding Angle:

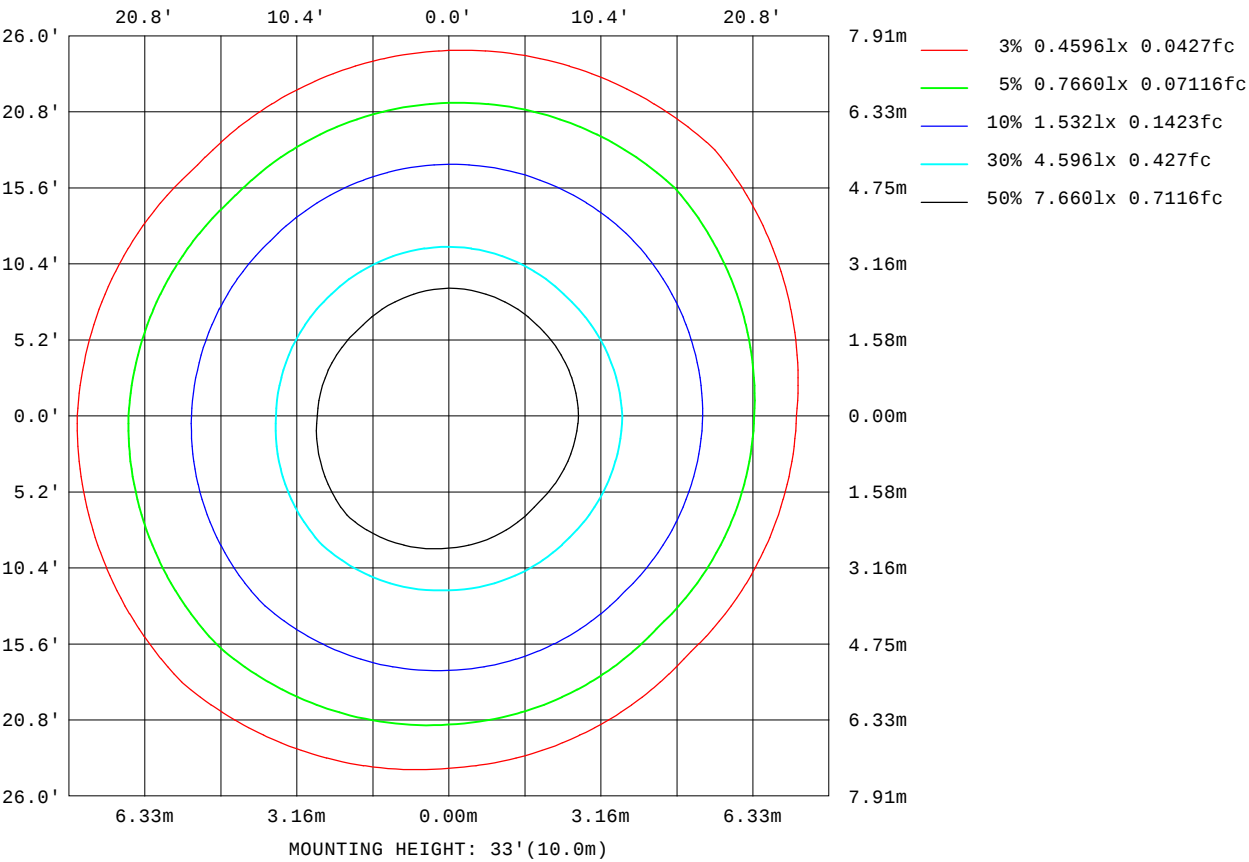


H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

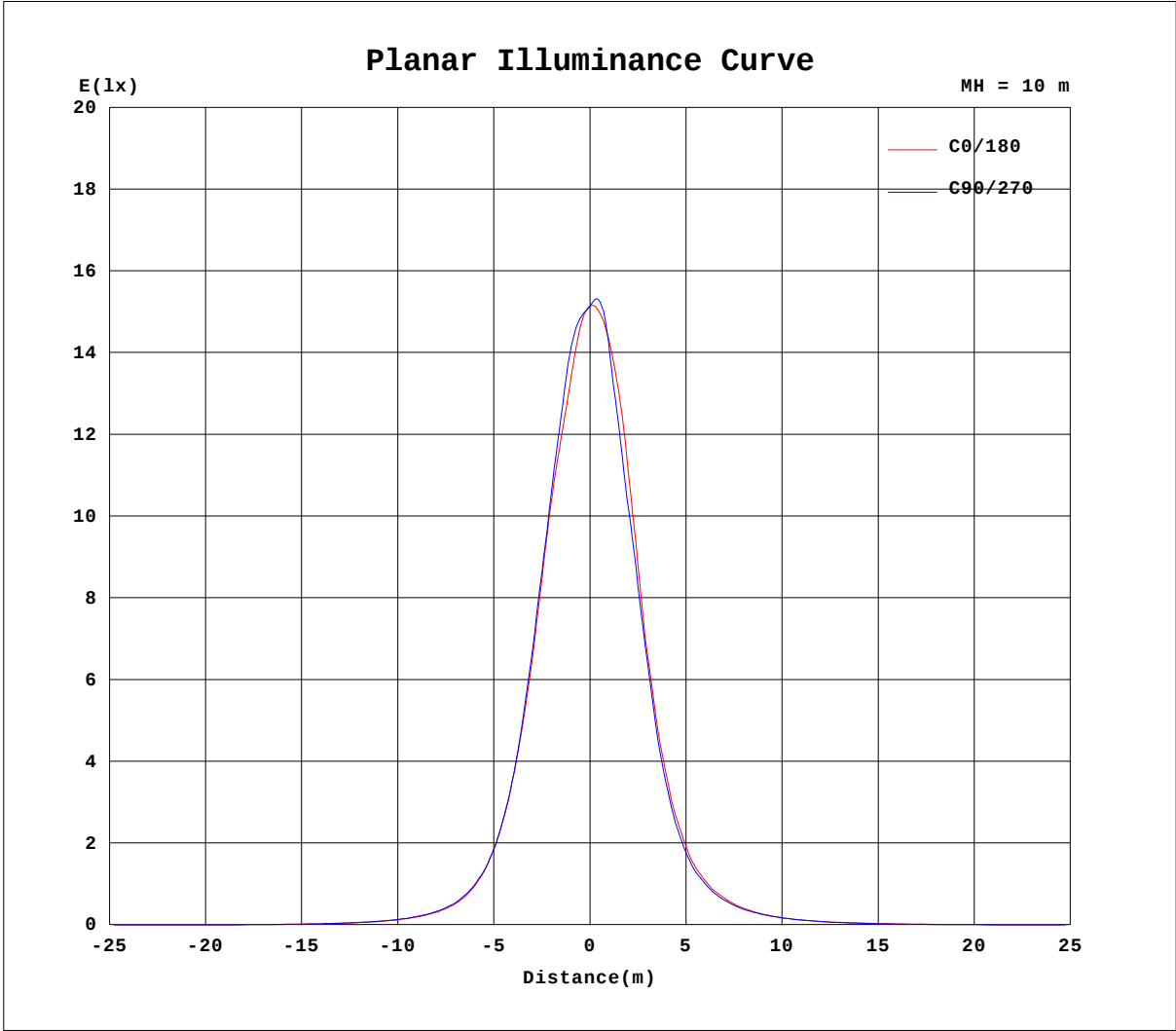
NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	Shielding Angle:



H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

Planar Illuminance Curve

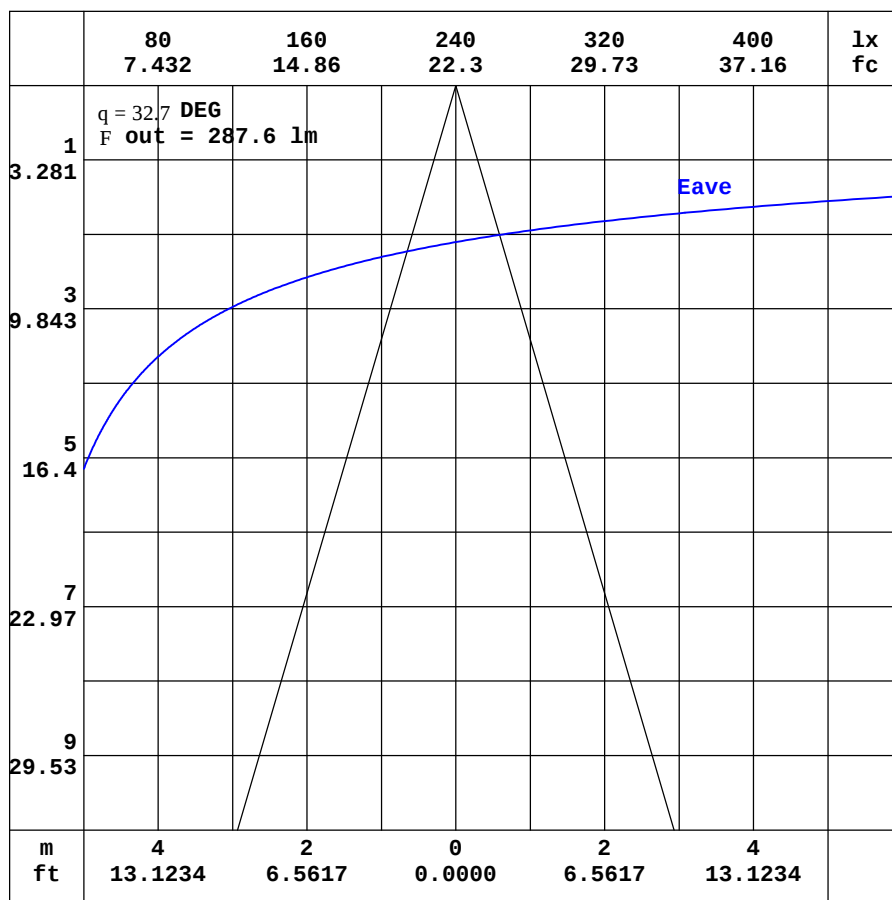


H_b Range: -90 - 90DEG
H_b Interval: 0.5DEG
Test Speed: LOW
Temperature: 25.3DEG
Operators:
Test Date: 2024-09-29

V(B) Range: -180 - 180DEG
V(B) Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity: 65.0%
Test Distance: 8.630m [K=1.0000]
Remarks:

AAI CURVES

NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	Shielding Angle:



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

H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	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	2.47	2.24	2.09	2.05	2.09	2.26	2.57	3.03	3.58	4.16	4.67	5.05	5.28	5.39	5.39	5.33	5.24	5.18	5.24
-170	2.47	2.22	2.05	1.98	1.99	2.10	2.33	2.66	3.06	3.47	3.84	4.12	4.31	4.41	4.44	4.39	4.27	4.49	4.65
-160	2.47	2.21	2.01	1.93	1.89	1.94	2.06	2.24	2.47	2.69	2.90	3.07	3.17	3.23	3.21	3.49	3.78	3.98	4.09
-150	2.47	2.21	2.00	1.87	1.81	1.78	1.81	1.86	1.93	1.98	2.01	2.01	1.97	2.02	2.30	2.57	2.79	2.92	2.97
-140	2.47	2.20	1.99	1.83	1.74	1.67	1.61	1.57	1.53	1.46	1.35	1.22	1.20	1.35	1.49	1.63	1.73	1.80	1.82
-130	2.47	2.20	1.98	1.81	1.69	1.59	1.49	1.39	1.29	1.17	1.03	0.94	0.95	0.97	1.00	1.03	1.06	1.07	1.07
-120	2.47	2.21	1.99	1.82	1.67	1.54	1.44	1.32	1.20	1.07	0.94	0.94	0.93	0.93	0.92	0.91	0.91	0.90	0.90
-110	2.47	2.23	2.02	1.83	1.68	1.55	1.41	1.28	1.17	1.05	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.01
-100	2.47	2.25	2.05	1.87	1.70	1.54	1.38	1.26	1.12	1.00	1.00	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02
-90	2.47	2.29	2.11	1.92	1.74	1.55	1.37	1.18	1.00	0.82	0.81	0.81	0.81	0.80	0.80	0.79	0.79	0.79	0.78
-80	2.47	2.33	2.18	2.01	1.84	1.68	1.50	1.29	1.05	0.80	0.78	0.78	0.79	0.80	0.80	0.81	0.83	0.84	0.84
-70	2.47	2.38	2.28	2.24	2.14	2.01	1.84	1.63	1.38	1.11	1.07	1.17	1.28	1.39	1.50	1.59	1.66	1.70	1.71
-60	2.47	2.43	2.48	2.52	2.55	2.50	2.45	2.38	2.34	2.38	2.64	3.44	4.37	5.34	6.25	6.97	7.46	7.72	7.67
-50	2.47	2.50	2.69	2.89	3.01	3.19	3.43	3.90	4.83	6.47	8.73	11.7	15.0	18.2	21.1	23.3	24.6	24.9	24.2
-40	2.47	2.59	2.91	3.26	3.62	4.11	5.05	6.90	10.2	15.0	20.9	28.5	37.0	44.6	51.6	57.5	61.3	62.6	60.8
-30	2.47	2.69	3.14	3.63	4.25	5.28	7.36	11.5	17.9	26.1	37.7	52.3	70.7	92.3	114	138	159	173	175
-20	2.47	2.78	3.37	4.02	4.93	6.62	10.2	16.8	25.4	38.0	55.8	81.0	117	170	247	348	451	532	550
-10	2.47	2.84	3.55	4.37	5.54	7.75	12.5	20.6	31.1	47.3	71.1	108	168	272	450	730	1059	1192	1205
0	2.47	2.90	3.69	4.63	5.99	8.47	13.9	22.5	33.4	50.6	76.8	119	189	320	539	880	1271	1468	1515
10	2.47	2.89	3.66	4.55	5.83	8.11	12.8	20.7	30.5	45.6	67.6	102	156	250	413	642	879	1103	1164
20	2.47	2.86	3.57	4.37	5.48	7.34	10.9	17.2	24.9	35.8	51.0	72.0	102	145	208	298	401	483	513
30	2.47	2.80	3.42	4.12	5.01	6.33	8.57	12.5	18.2	25.0	34.2	45.5	58.8	75.6	97.9	123	148	167	175
40	2.47	2.73	3.25	3.86	4.53	5.40	6.67	8.67	11.7	15.7	20.3	25.9	32.8	40.9	49.3	57.4	65.0	70.6	73.5
50	2.47	2.66	3.07	3.55	4.01	4.58	5.26	6.16	7.40	9.02	11.0	13.4	16.4	19.8	23.2	26.5	29.3	31.4	32.5
60	2.47	2.61	2.90	3.20	3.55	3.88	4.25	4.65	5.10	5.62	6.23	7.05	7.96	8.93	9.91	10.8	11.5	12.1	12.4
70	2.47	2.57	2.69	2.91	3.09	3.29	3.48	3.66	3.82	3.99	4.19	4.41	4.63	4.83	5.03	5.20	5.34	5.43	5.47
80	2.47	2.52	2.57	2.62	2.71	2.81	2.90	2.97	3.03	3.08	3.14	3.19	3.23	3.28	3.31	3.35	3.37	3.39	3.39
90	2.47	2.48	2.48	2.48	2.48	2.48	2.48	2.48	2.49	2.49	2.48	2.47	2.47	2.46	2.45	2.44	2.43	2.43	2.42
100	2.47	2.43	2.39	2.36	2.32	2.29	2.26	2.23	2.21	2.19	2.16	2.13	2.11	2.09	2.07	2.06	2.05	2.04	2.03
110	2.47	2.39	2.32	2.25	2.19	2.14	2.09	2.06	2.03	2.02	2.00	1.99	1.99	1.99	1.99	2.00	2.01	2.01	2.01
120	2.47	2.36	2.25	2.16	2.09	2.04	2.02	2.01	2.00	2.00	2.03	2.10	2.18	2.26	2.33	2.40	2.45	2.49	2.50
130	2.47	2.32	2.20	2.10	2.04	2.03	2.02	2.05	2.14	2.27	2.42	2.61	2.83	3.04	3.23	3.38	3.51	3.59	3.63
140	2.47	2.30	2.15	2.05	2.03	2.04	2.10	2.25	2.46	2.74	3.06	3.41	3.74	4.07	4.34	4.56	4.72	4.82	4.87
150	2.47	2.28	2.13	2.04	2.04	2.09	2.25	2.51	2.86	3.29	3.74	4.20	4.60	4.94	5.20	5.39	5.52	5.62	5.69
160	2.47	2.27	2.10	2.04	2.05	2.17	2.40	2.77	3.24	3.76	4.29	4.76	5.12	5.37	5.54	5.66	5.75	5.85	5.97
170	2.47	2.25	2.09	2.04	2.08	2.22	2.52	2.95	3.49	4.06	4.60	5.01	5.30	5.46	5.52	5.53	5.46	5.46	5.54
180	2.47	2.24	2.09	2.05	2.09	2.26	2.57	3.03	3.58	4.16	4.67	5.05	5.28	5.39	5.39	5.33	5.24	5.18	5.25

H_b Range:-90 - 90DEG
H_b Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME:Blazeline-609mm-TW-1800K-30D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:30 DEG	DIM.:609MM	SERIAL No.:IES002995
MFR.:	SUR.:1	Shielding Angle:

Table--2

UNIT: cd

H(°) \ V(°)	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
-180	4.79	4.52	4.23	3.81	3.33	2.81	2.29	1.81	1.38	1.10	0.94	0.94	0.96	1.00	1.00	0.99	0.90	0.78
-170	4.57	4.39	4.09	3.71	3.24	2.71	2.20	1.73	1.33	1.07	0.94	0.93	0.96	1.00	1.00	0.99	0.90	0.78
-160	4.00	3.83	3.57	3.22	2.77	2.31	1.87	1.47	1.18	1.00	0.93	0.93	0.97	1.00	1.00	0.99	0.89	0.78
-150	2.93	2.81	2.60	2.33	2.04	1.72	1.42	1.18	1.02	0.93	0.92	0.94	0.99	1.00	1.01	0.98	0.88	0.78
-140	1.80	1.74	1.63	1.48	1.34	1.18	1.06	0.97	0.92	0.91	0.93	0.97	1.00	1.00	1.00	0.96	0.87	0.78
-130	1.07	1.05	1.02	0.98	0.95	0.92	0.91	0.90	0.91	0.93	0.96	1.00	1.01	1.01	1.00	0.94	0.86	0.78
-120	0.90	0.90	0.90	0.90	0.91	0.91	0.92	0.93	0.96	1.00	1.00	1.01	1.01	1.00	0.97	0.91	0.84	0.78
-110	1.01	1.01	1.01	1.01	1.01	1.01	1.01	1.02	1.02	1.02	1.01	1.01	1.01	0.99	0.96	0.92	0.87	0.78
-100	1.02	1.02	1.01	1.01	1.01	1.01	1.01	1.02	1.00	0.98	0.96	0.94	0.91	0.88	0.86	0.83	0.80	0.78
-90	0.79	0.79	0.80	0.80	0.81	0.81	0.82	0.82	0.82	0.82	0.82	0.81	0.81	0.80	0.80	0.79	0.79	0.78
-80	0.83	0.82	0.81	0.80	0.80	0.79	0.79	0.78	0.79	0.81	0.83	0.83	0.82	0.82	0.80	0.79	0.79	0.78
-70	1.68	1.62	1.53	1.43	1.32	1.20	1.09	1.00	0.93	0.91	0.90	0.91	0.92	0.90	0.86	0.83	0.79	0.78
-60	7.34	6.77	6.06	5.24	4.40	3.59	2.84	2.22	1.80	1.48	1.27	1.13	1.04	1.00	0.95	0.87	0.80	0.78
-50	23.0	21.1	18.6	15.8	13.0	10.3	7.82	5.91	4.40	3.12	2.20	1.63	1.30	1.13	1.04	0.93	0.83	0.78
-40	57.4	51.6	44.2	36.3	28.8	22.1	16.9	12.9	9.60	6.64	4.18	2.58	1.74	1.32	1.11	1.00	0.84	0.78
-30	163	139	111	82.9	59.9	43.7	32.0	23.3	16.4	11.4	7.40	4.14	2.37	1.56	1.22	1.06	0.86	0.78
-20	512	421	310	202	129	83.2	54.8	36.8	24.8	16.3	10.8	6.03	3.10	1.83	1.32	1.10	0.87	0.78
-10	1107	874	644	422	244	138	80.6	50.5	32.5	20.7	13.2	7.81	3.78	2.04	1.40	1.13	0.88	0.78
0	1387	1168	859	543	313	171	95.0	57.9	36.6	23.0	14.5	8.71	4.09	2.15	1.44	1.15	0.89	0.78
10	1078	894	633	408	249	150	91.2	58.3	37.5	23.5	14.7	8.61	4.25	2.35	1.59	1.23	0.92	0.78
20	479	396	301	220	156	107	73.2	49.6	32.7	20.8	13.2	7.42	3.98	2.41	1.68	1.30	0.95	0.78
30	171	156	135	113	92.2	70.5	51.4	36.1	24.4	16.1	10.2	5.86	3.54	2.36	1.72	1.34	0.97	0.78
40	73.3	70.1	64.4	57.2	49.0	40.3	31.0	22.4	15.7	10.6	6.82	4.47	3.11	2.27	1.71	1.33	0.98	0.78
50	32.4	31.1	28.9	26.0	22.6	18.9	15.3	11.8	8.71	6.41	4.74	3.58	2.74	2.14	1.70	1.31	0.99	0.78
60	12.3	11.8	11.2	10.3	9.29	8.25	7.28	6.38	5.36	4.42	3.64	2.98	2.44	2.00	1.62	1.27	0.97	0.78
70	5.44	5.36	5.23	5.06	4.86	4.66	4.44	4.22	3.89	3.39	2.94	2.54	2.18	1.83	1.51	1.23	0.97	0.78
80	3.38	3.37	3.34	3.31	3.26	3.22	3.16	3.11	3.02	2.74	2.46	2.19	1.92	1.66	1.40	1.17	0.97	0.78
90	2.42	2.43	2.43	2.43	2.44	2.44	2.44	2.44	2.45	2.26	2.08	1.89	1.71	1.52	1.34	1.15	0.97	0.78
100	2.03	2.04	2.05	2.07	2.08	2.10	2.12	2.13	2.15	2.03	1.91	1.78	1.64	1.49	1.33	1.16	0.97	0.78
110	2.01	2.01	2.01	2.00	2.01	2.01	2.01	2.02	1.99	1.89	1.79	1.68	1.57	1.45	1.32	1.16	0.98	0.78
120	2.50	2.47	2.43	2.37	2.30	2.22	2.15	2.08	1.94	1.81	1.70	1.60	1.51	1.42	1.29	1.16	0.98	0.78
130	3.60	3.53	3.42	3.28	3.10	2.90	2.70	2.41	2.08	1.84	1.66	1.54	1.45	1.36	1.27	1.14	0.97	0.78
140	4.83	4.73	4.58	4.37	4.12	3.82	3.36	2.77	2.30	1.92	1.65	1.49	1.38	1.30	1.23	1.12	0.97	0.78
150	5.64	5.55	5.41	5.23	4.97	4.38	3.65	2.98	2.40	1.93	1.62	1.41	1.31	1.23	1.18	1.10	0.96	0.78
160	5.90	5.83	5.77	5.55	4.93	4.26	3.57	2.89	2.29	1.81	1.49	1.30	1.21	1.16	1.12	1.07	0.94	0.78
170	5.55	5.62	5.27	4.82	4.30	3.71	3.09	2.49	1.94	1.53	1.25	1.14	1.09	1.08	1.06	1.03	0.92	0.78
180	4.79	4.52	4.23	3.81	3.33	2.81	2.29	1.81	1.38	1.10	0.94	0.94	0.96	1.00	1.00	0.99	0.90	0.78

H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

V(B) Range:-180 - 180DEG
V(B) Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.0.351
Humidity:65.0%
Test Distance:8.630m [K=1.0000]
Remarks: