

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3530.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	51.3V x 53.3H
	At 50% of Imax	21.9V x 22.7H
	At 90% of Imax	7.8V x 8.2H

Beam Flux	Total	1000.1 lumens per klm.
	To 10% of Imax	711.2 lumens per klm.
	To 50% of Imax	305.5 lumens per klm.
	To 90% of Imax	61.6 lumens per klm.

Upward LOR	2.3 %
Downward LOR	97.7 %

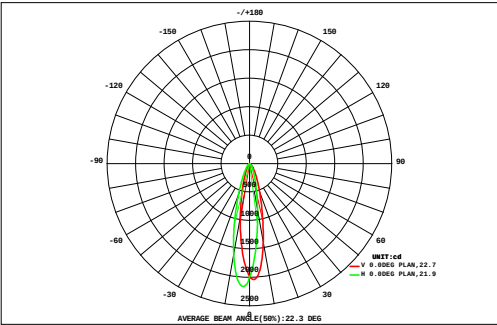
Luminaire Efficiency(Light Output Ratio)	100.0 %
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H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

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 Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
MFR.:	SUR.:1	Shielding Angle:



DATA OF LAMP		Eff:70.38lm/W	
MODEL		Imax(cd)	2162
NOMINAL POWER(W)	8.7	AVAILABILITY(%)	70.8
RATED VOLTAGE(V)	24	Avai. FLUX(lm)	433.6
NOMINAL FLUX(lm)	612.3	LOR(%)	100.0
LAMPS INSIDE	1	TOTAL FLUX(lm)	612.3
TEST VOLTAGE(V)	24	q @50%(H,V)	23,22DEG

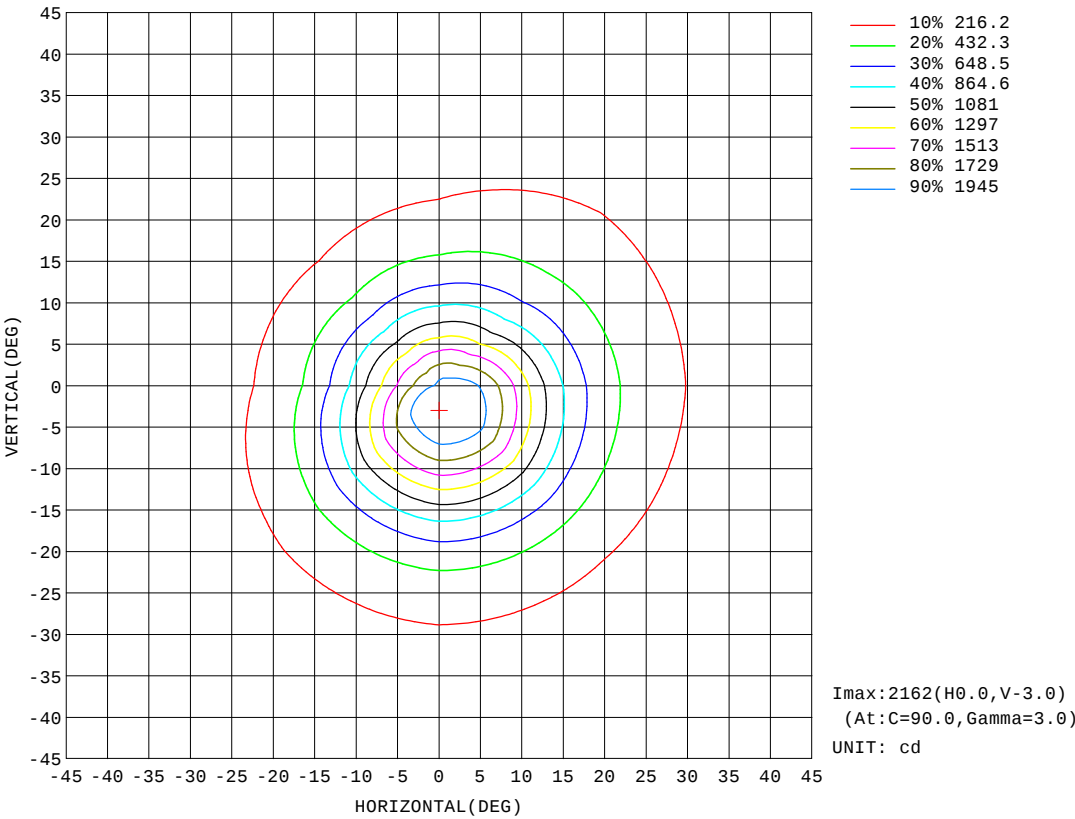
		AREA FLUX DIAGRAM																UNIT:lm				F t	F a
VERTICAL (DEG)	45	0.08	0.10	0.12	0.16	0.19	0.23	0.27	0.31	0.34	0.36	0.38	0.39	0.37	0.33	0.29	0.23	0.18	0.12	4.45	0.00		
	40	0.09	0.12	0.15	0.20	0.25	0.31	0.37	0.43	0.47	0.52	0.56	0.56	0.53	0.47	0.40	0.32	0.23	0.16	6.14	0.00		
	35	0.11	0.15	0.19	0.25	0.32	0.42	0.52	0.61	0.69	0.76	0.81	0.81	0.75	0.66	0.55	0.41	0.29	0.20	8.50	0.00		
	30	0.13	0.18	0.24	0.31	0.42	0.57	0.74	0.90	1.02	1.13	1.20	1.18	1.08	0.92	0.72	0.52	0.37	0.24	11.9	0.00		
	25	0.15	0.21	0.29	0.41	0.56	0.78	1.07	1.36	1.59	1.75	1.80	1.70	1.50	1.23	0.92	0.65	0.44	0.29	16.7	5.13		
	20	0.17	0.25	0.36	0.52	0.75	1.08	1.57	2.16	2.63	2.87	2.80	2.47	2.04	1.57	1.14	0.78	0.52	0.33	24.0	16.6		
	15	0.19	0.28	0.42	0.65	1.00	1.55	2.36	3.52	4.54	4.88	4.45	3.61	2.74	1.97	1.37	0.92	0.59	0.37	35.4	29.2		
	10	0.20	0.31	0.48	0.76	1.26	2.14	3.61	5.67	7.77	8.34	7.08	5.34	3.65	2.41	1.58	1.03	0.65	0.40	52.7	47.3		
	5	0.21	0.33	0.52	0.85	1.46	2.66	4.90	8.33	11.8	13.0	10.9	7.41	4.56	2.78	1.74	1.10	0.68	0.41	73.7	68.7		
	0	0.22	0.35	0.55	0.92	1.62	3.06	5.85	10.3	14.8	15.9	13.0	8.42	4.92	2.88	1.75	1.09	0.67	0.41	86.7	81.8		
	-5	0.22	0.35	0.56	0.95	1.68	3.11	5.81	9.87	13.3	14.1	11.6	7.61	4.47	2.63	1.60	1.01	0.62	0.38	79.9	74.9		
	-10	0.21	0.33	0.54	0.89	1.52	2.66	4.59	7.11	9.28	9.69	8.11	5.68	3.51	2.16	1.36	0.87	0.55	0.35	59.4	54.1		
	-15	0.20	0.30	0.48	0.77	1.25	2.04	3.12	4.41	5.52	5.72	4.89	3.65	2.48	1.63	1.09	0.72	0.47	0.30	39.1	33.0		
	-20	0.17	0.27	0.41	0.63	0.97	1.43	2.02	2.65	3.14	3.22	2.85	2.27	1.66	1.18	0.83	0.57	0.39	0.25	24.9	17.5		
	-25	0.15	0.22	0.33	0.48	0.70	0.98	1.30	1.61	1.85	1.88	1.71	1.43	1.12	0.83	0.61	0.44	0.31	0.21	16.2	5.41		
	-30	0.13	0.18	0.26	0.37	0.50	0.66	0.84	1.01	1.13	1.14	1.06	0.92	0.75	0.59	0.45	0.33	0.24	0.17	10.7	0.00		
-35	0.11	0.15	0.20	0.27	0.36	0.45	0.55	0.64	0.70	0.71	0.67	0.60	0.51	0.41	0.32	0.25	0.18	0.13	7.22	0.00			
-40	0.08	0.11	0.15	0.20	0.26	0.31	0.37	0.42	0.45	0.46	0.44	0.40	0.35	0.29	0.23	0.18	0.14	0.10	4.95	0.00			
-45	-45	-40	-35	-30	-25	-20	-15	-10	HORIZONTAL(DEG)				10	15	20	25	30	35	40	45			
F t	2.83	4.19	6.27	9.57	15.1	24.5	39.9	61.3	81.0	86.5	74.4	54.4	37.0	25.0	17.0	11.4	7.52	4.83	562	---			
F a	0.00	0.00	0.00	0.00	3.93	16.7	33.0	54.9	75.0	80.4	68.3	48.0	29.9	17.0	6.53	0.00	0.00	0.00	---	434			

one-half-peak spread: U:11.5,D:10.6 , L:11.5,R:11.4 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 Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
MFR.:	SUR.:1	Shielding Angle:

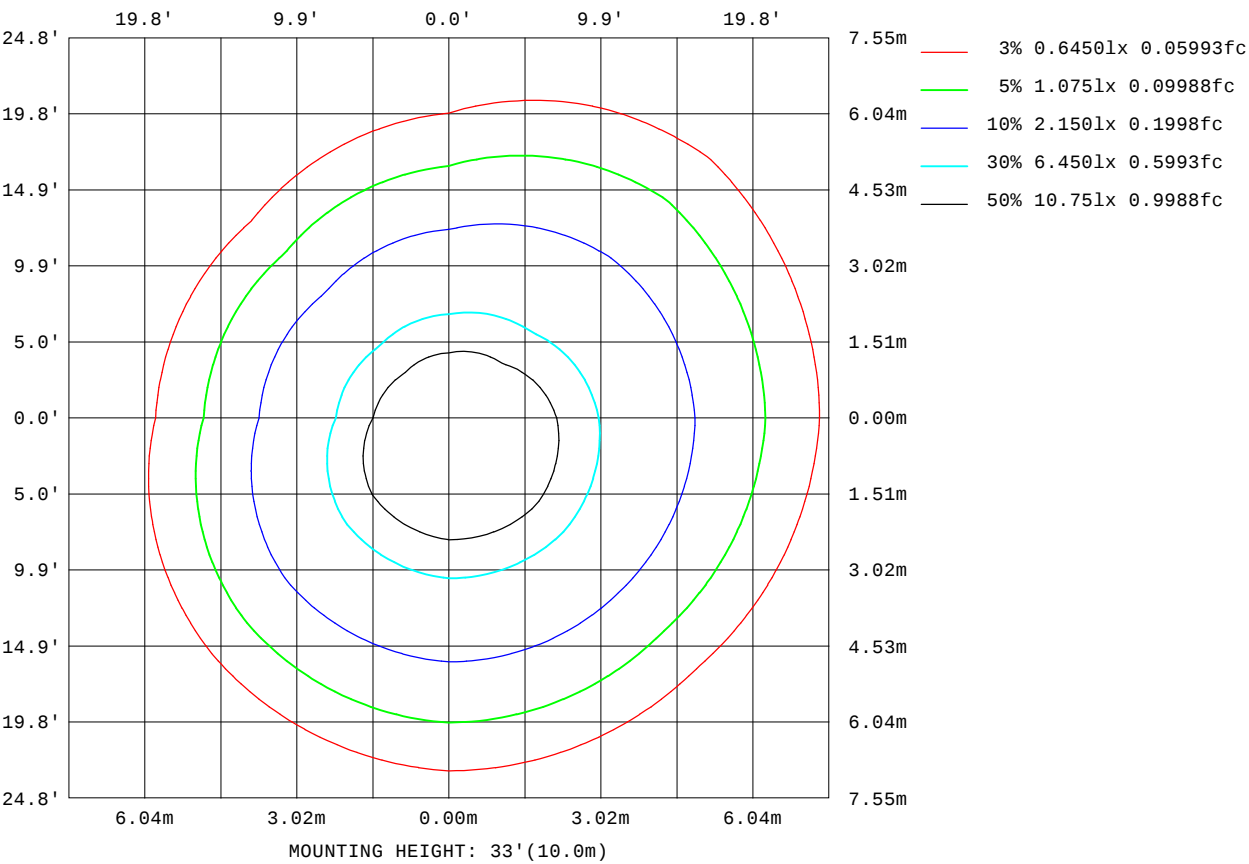


H_(b) Range:-90 - 90DEG
H_(b) Interval: 0.5DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2024-09-29

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

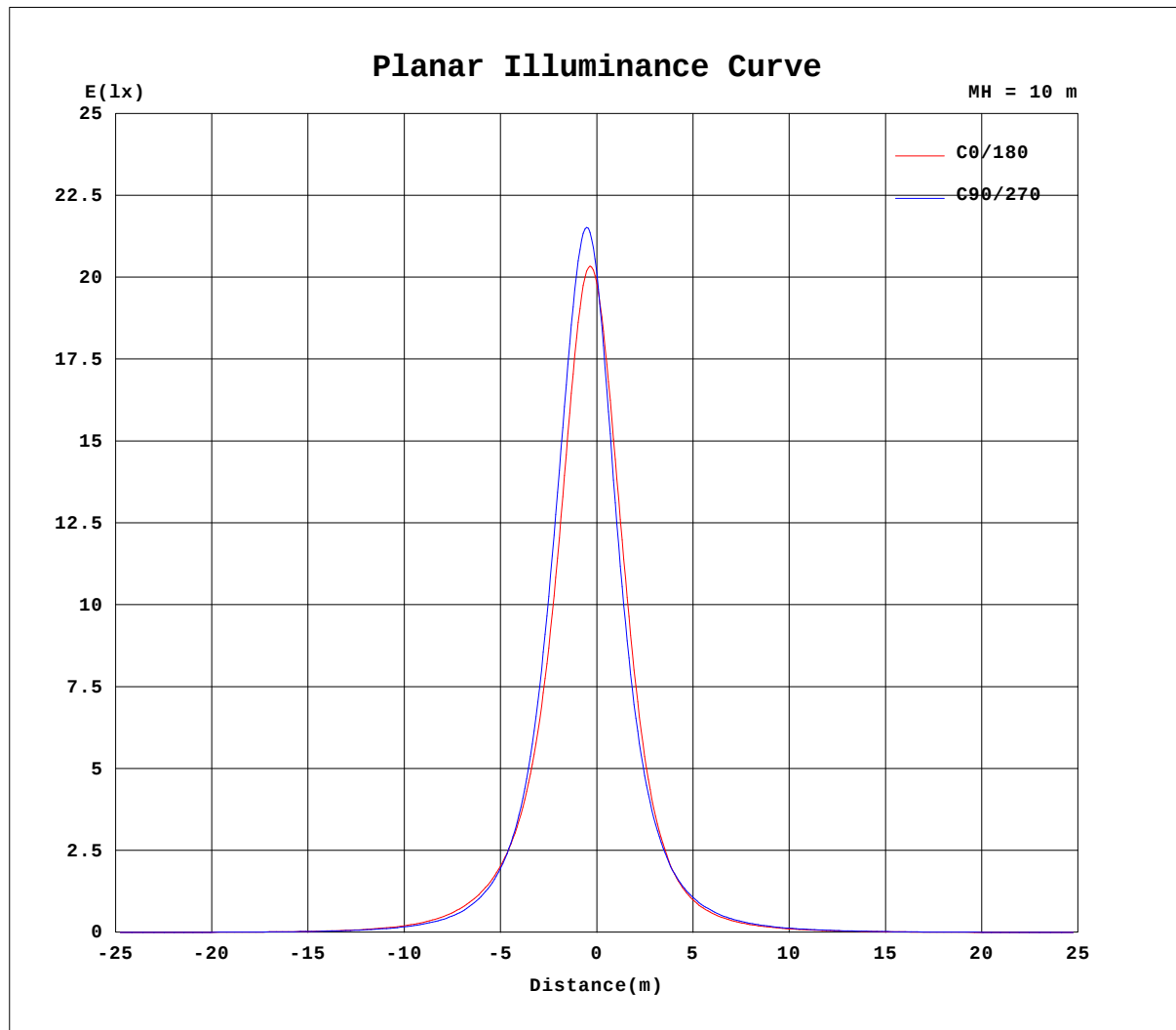
NAME:BlazeLine Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
MFR.:	SUR.:1	Shielding Angle:



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

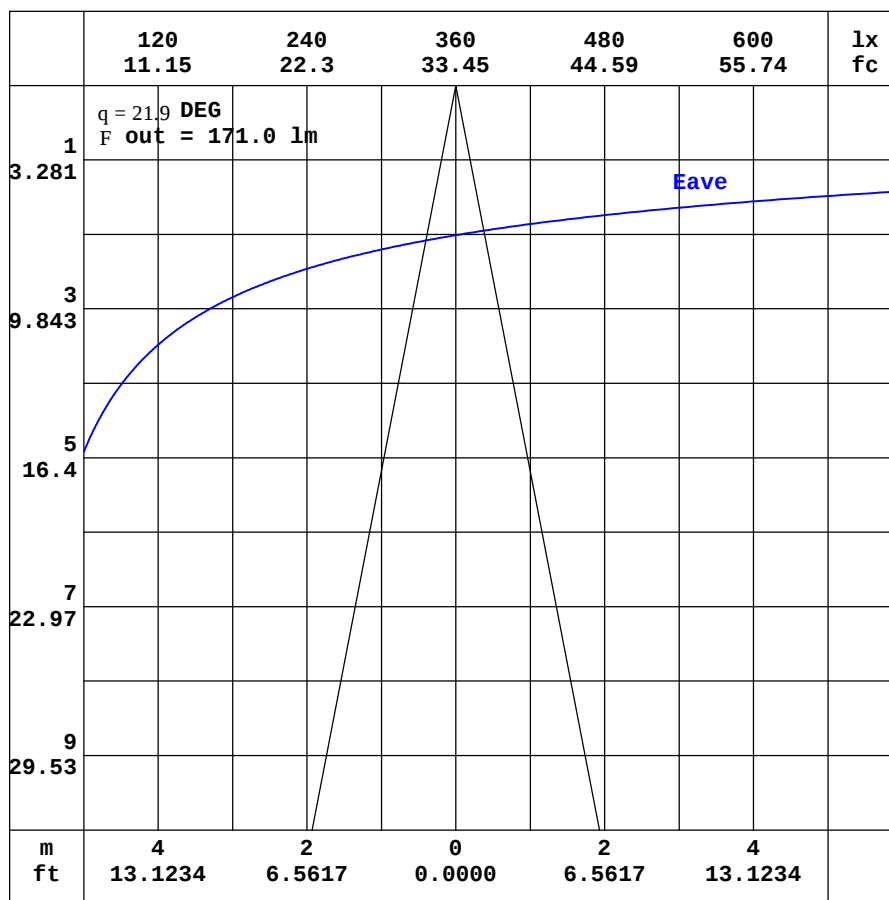


H_b Range: -90 - 90DEG
H_b Interval: 0.5DEG
Test Speed: LOW
Temperature: 25.3DEG
Operators:
Test Date: 2024-09-29

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 Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
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 Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
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	2.17	1.99	1.88	1.89	1.98	2.19	2.53	3.02	3.59	4.16	4.60	4.84	4.89	4.89	4.88	4.83	4.75	4.69	4.62
-170	2.17	1.97	1.85	1.84	1.89	2.04	2.28	2.64	3.05	3.44	3.76	3.93	4.01	4.04	4.10	4.13	4.11	4.25	4.34
-160	2.17	1.95	1.82	1.79	1.80	1.87	2.00	2.21	2.44	2.65	2.82	2.92	2.96	2.96	2.97	3.21	3.45	3.58	3.62
-150	2.17	1.95	1.79	1.73	1.71	1.71	1.75	1.81	1.88	1.92	1.93	1.89	1.81	1.80	2.03	2.23	2.37	2.45	2.44
-140	2.17	1.95	1.78	1.69	1.63	1.60	1.56	1.51	1.47	1.40	1.28	1.10	1.06	1.17	1.27	1.35	1.41	1.43	1.41
-130	2.17	1.95	1.77	1.66	1.58	1.51	1.44	1.35	1.25	1.12	0.97	0.87	0.87	0.88	0.88	0.88	0.87	0.86	0.84
-120	2.17	1.95	1.78	1.64	1.54	1.45	1.36	1.27	1.18	1.05	0.93	0.92	0.91	0.89	0.89	0.88	0.88	0.87	0.87
-110	2.17	1.97	1.80	1.65	1.52	1.41	1.32	1.23	1.13	1.03	0.99	0.99	0.99	1.00	0.99	0.99	0.99	1.00	1.00
-100	2.17	1.99	1.82	1.67	1.53	1.40	1.28	1.17	1.06	0.96	0.96	0.96	0.96	0.97	0.97	0.96	0.96	0.96	0.96
-90	2.17	2.01	1.86	1.71	1.55	1.40	1.25	1.09	0.94	0.78	0.78	0.77	0.76	0.76	0.75	0.74	0.74	0.73	0.72
-80	2.17	2.05	1.92	1.78	1.69	1.59	1.41	1.25	1.11	0.97	1.06	1.15	1.24	1.33	1.42	1.49	1.56	1.62	1.66
-70	2.17	2.09	2.06	2.04	1.96	1.98	2.03	2.11	2.25	2.43	2.77	3.21	3.66	4.08	4.50	4.87	5.19	5.43	5.58
-60	2.17	2.13	2.26	2.28	2.47	2.78	3.21	3.76	4.40	5.15	6.03	7.20	8.46	9.72	11.0	12.1	13.1	13.8	14.3
-50	2.17	2.22	2.37	2.66	3.16	3.88	4.83	6.04	7.48	9.26	11.4	13.9	16.8	20.0	23.3	26.4	29.1	31.3	32.6
-40	2.17	2.39	2.56	3.10	3.94	5.14	6.74	8.78	11.5	14.8	19.0	24.2	30.7	38.5	47.0	56.0	64.3	71.0	75.0
-30	2.17	2.49	2.77	3.54	4.72	6.43	8.69	11.8	15.8	21.3	28.8	39.0	53.1	72.1	96.2	125	154	179	193
-20	2.17	2.54	2.96	3.92	5.42	7.53	10.4	14.4	19.9	27.7	39.1	56.4	83.5	127	193	284	391	499	566
-10	2.17	2.57	3.11	4.21	5.94	8.33	11.6	16.2	22.6	31.9	46.2	69.1	108	175	300	532	932	1349	1614
0	2.17	2.61	3.21	4.38	6.20	8.68	12.0	16.7	23.1	32.3	46.1	67.4	102	163	285	519	950	1524	1982
10	2.17	2.61	3.17	4.29	6.01	8.36	11.5	15.8	21.6	29.6	41.3	58.6	85.3	128	199	314	476	702	825
20	2.17	2.60	3.08	4.08	5.58	7.64	10.3	13.9	18.5	24.6	32.6	43.5	58.4	79.1	106	148	198	247	277
30	2.17	2.58	2.95	3.78	4.98	6.65	8.77	11.4	14.8	18.8	23.7	29.6	36.6	45.7	59.2	74.5	90.7	104	113
40	2.17	2.51	2.80	3.42	4.31	5.52	7.03	8.85	11.0	13.5	16.4	19.5	23.3	28.4	33.9	39.8	45.6	50.5	53.8
50	2.17	2.36	2.65	3.06	3.66	4.42	5.37	6.50	7.77	9.20	10.7	12.5	14.7	17.1	19.5	21.8	24.0	25.8	27.1
60	2.17	2.28	2.58	2.75	3.07	3.50	3.99	4.58	5.22	5.91	6.65	7.60	8.61	9.64	10.6	11.5	12.3	12.9	13.3
70	2.17	2.24	2.40	2.56	2.65	2.81	3.01	3.22	3.47	3.73	4.04	4.39	4.75	5.09	5.43	5.74	5.99	6.19	6.32
80	2.17	2.21	2.25	2.30	2.39	2.49	2.51	2.53	2.57	2.61	2.66	2.72	2.79	2.85	2.91	2.96	3.00	3.04	3.06
90	2.17	2.17	2.18	2.18	2.19	2.19	2.19	2.20	2.20	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.21	2.22	2.22
100	2.17	2.14	2.11	2.08	2.05	2.03	2.00	1.98	1.96	1.95	1.93	1.92	1.91	1.90	1.90	1.90	1.90	1.90	1.90
110	2.17	2.10	2.05	1.99	1.94	1.91	1.89	1.88	1.87	1.86	1.86	1.87	1.88	1.89	1.90	1.92	1.94	1.95	1.96
120	2.17	2.07	1.99	1.92	1.89	1.88	1.87	1.87	1.88	1.93	1.99	2.07	2.16	2.24	2.32	2.39	2.44	2.47	2.47
130	2.17	2.05	1.95	1.89	1.88	1.88	1.91	1.99	2.10	2.26	2.45	2.68	2.91	3.12	3.32	3.47	3.59	3.66	3.67
140	2.17	2.03	1.91	1.88	1.88	1.92	2.04	2.21	2.46	2.80	3.17	3.56	3.90	4.19	4.41	4.57	4.67	4.73	4.76
150	2.17	2.01	1.89	1.88	1.91	2.01	2.20	2.50	2.91	3.39	3.86	4.29	4.63	4.86	5.02	5.13	5.21	5.27	5.31
160	2.17	2.00	1.89	1.89	1.94	2.10	2.36	2.77	3.29	3.84	4.34	4.71	4.95	5.10	5.19	5.27	5.35	5.42	5.52
170	2.17	1.99	1.89	1.89	1.97	2.16	2.48	2.96	3.53	4.10	4.56	4.85	4.99	5.04	5.08	5.04	4.92	4.89	5.01
180	2.17	1.99	1.88	1.89	1.98	2.19	2.53	3.02	3.59	4.16	4.60	4.84	4.89	4.89	4.88	4.83	4.75	4.69	4.63

H_(b) Range:-90 - 90DEGH_(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 Slim-600mm-TW-1800K-20D-Rev1	TYPE:1800K	WEIGHT:
SPEC.:20 DEG	DIM.:600MM	SERIAL No.:IES003009
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	4.31	4.05	3.71	3.29	2.82	2.35	1.88	1.45	1.07	0.86	0.82	0.85	0.92	0.94	0.94	0.90	0.77	0.64
-170	4.23	4.00	3.63	3.18	2.70	2.21	1.75	1.34	1.01	0.84	0.82	0.84	0.92	0.94	0.94	0.89	0.77	0.64
-160	3.51	3.31	2.99	2.61	2.20	1.79	1.42	1.10	0.90	0.81	0.81	0.87	0.93	0.95	0.94	0.89	0.76	0.64
-150	2.38	2.24	2.04	1.78	1.51	1.26	1.04	0.89	0.81	0.80	0.83	0.90	0.94	0.95	0.94	0.88	0.76	0.64
-140	1.38	1.31	1.21	1.09	0.98	0.88	0.82	0.79	0.80	0.82	0.89	0.94	0.96	0.96	0.93	0.86	0.75	0.64
-130	0.84	0.83	0.81	0.80	0.80	0.79	0.79	0.81	0.86	0.92	0.94	0.97	0.96	0.95	0.90	0.83	0.73	0.64
-120	0.86	0.86	0.87	0.87	0.88	0.90	0.92	0.93	0.96	0.98	0.98	0.97	0.95	0.92	0.87	0.78	0.72	0.64
-110	1.00	0.99	0.99	0.99	0.99	1.00	0.99	0.99	0.99	0.98	0.97	0.93	0.90	0.86	0.79	0.74	0.69	0.64
-100	0.96	0.95	0.95	0.95	0.94	0.93	0.92	0.91	0.89	0.87	0.84	0.81	0.78	0.75	0.73	0.69	0.66	0.64
-90	0.72	0.71	0.71	0.70	0.70	0.69	0.69	0.69	0.68	0.68	0.67	0.67	0.66	0.66	0.66	0.65	0.65	0.64
-80	1.61	1.55	1.47	1.39	1.29	1.19	1.09	0.99	0.88	0.80	0.74	0.69	0.66	0.65	0.65	0.64	0.64	0.64
-70	5.46	5.26	4.97	4.61	4.20	3.76	3.29	2.82	2.35	1.92	1.54	1.23	0.98	0.80	0.69	0.65	0.64	0.64
-60	14.0	13.4	12.6	11.6	10.4	9.08	7.78	6.48	5.34	4.24	3.24	2.38	1.69	1.18	0.85	0.68	0.64	0.64
-50	32.0	30.5	28.2	25.4	22.2	18.9	15.7	12.8	10.2	7.82	5.81	4.13	2.76	1.77	1.11	0.76	0.65	0.64
-40	73.3	68.6	61.6	53.3	44.7	36.4	29.2	23.0	17.6	13.0	9.26	6.34	4.14	2.50	1.44	0.86	0.65	0.64
-30	185	165	139	112	87.1	67.7	51.7	38.6	28.0	19.8	13.5	8.89	5.62	3.28	1.78	0.96	0.66	0.64
-20	531	438	329	231	166	119	84.1	59.1	40.7	27.4	18.0	11.4	6.96	3.98	2.07	1.05	0.67	0.64
-10	1489	1133	707	430	272	179	119	79.5	52.6	34.2	21.7	13.3	7.92	4.48	2.26	1.11	0.68	0.64
0	1927	1394	861	519	325	212	140	90.9	59.1	37.6	23.4	14.1	8.27	4.64	2.31	1.13	0.68	0.64
10	810	657	510	367	260	182	124	83.8	55.5	35.9	22.6	13.9	8.21	4.66	2.38	1.19	0.72	0.64
20	296	286	259	221	174	130	94.1	66.3	45.4	30.2	19.6	12.3	7.51	4.34	2.31	1.21	0.75	0.64
30	127	132	128	117	103	82.6	62.9	46.2	33.0	22.8	15.3	10.0	6.35	3.76	2.13	1.19	0.78	0.64
40	59.3	62.1	61.7	58.6	53.3	46.4	37.9	29.0	21.5	15.6	11.0	7.53	4.98	3.10	1.89	1.15	0.80	0.64
50	28.8	29.7	29.4	28.3	26.2	23.5	20.4	16.7	13.0	9.91	7.39	5.32	3.67	2.48	1.64	1.11	0.81	0.64
60	13.8	13.9	13.7	13.2	12.5	11.4	10.3	9.05	7.52	6.03	4.70	3.57	2.68	1.98	1.45	1.08	0.82	0.64
70	6.39	6.38	6.29	6.11	5.86	5.54	5.19	4.81	4.30	3.65	3.07	2.54	2.07	1.67	1.33	1.06	0.83	0.64
80	3.09	3.11	3.11	3.11	3.09	3.06	3.03	2.99	2.92	2.62	2.32	2.04	1.76	1.51	1.27	1.05	0.84	0.64
90	2.24	2.26	2.28	2.30	2.32	2.34	2.36	2.38	2.40	2.21	2.01	1.82	1.62	1.43	1.23	1.04	0.84	0.64
100	1.91	1.92	1.94	1.95	1.97	1.99	2.02	2.05	2.07	1.95	1.82	1.68	1.54	1.38	1.22	1.04	0.84	0.64
110	1.95	1.94	1.94	1.93	1.92	1.92	1.92	1.92	1.90	1.79	1.70	1.60	1.48	1.37	1.21	1.04	0.85	0.64
120	2.44	2.38	2.31	2.23	2.15	2.07	1.99	1.94	1.83	1.72	1.62	1.52	1.43	1.32	1.21	1.04	0.86	0.64
130	3.60	3.48	3.31	3.11	2.89	2.66	2.43	2.16	1.89	1.70	1.56	1.46	1.37	1.28	1.17	1.04	0.85	0.64
140	4.68	4.56	4.39	4.16	3.88	3.54	3.05	2.50	2.05	1.72	1.52	1.39	1.30	1.23	1.14	1.03	0.85	0.64
150	5.23	5.12	4.98	4.80	4.57	4.02	3.33	2.69	2.13	1.73	1.45	1.31	1.23	1.17	1.10	1.00	0.83	0.64
160	5.42	5.34	5.23	5.00	4.42	3.82	3.19	2.56	2.01	1.59	1.32	1.19	1.14	1.10	1.05	0.97	0.82	0.64
170	5.01	5.08	4.74	4.29	3.78	3.23	2.68	2.13	1.64	1.29	1.11	1.02	1.03	1.02	1.00	0.94	0.80	0.64
180	4.31	4.05	3.71	3.29	2.82	2.35	1.88	1.45	1.07	0.86	0.82	0.85	0.92	0.94	0.94	0.90	0.77	0.64

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: