

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3669.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	2.5 degrees horizontal

Beam Spread	At 10% of Imax	50.2V x 50.6H
	At 50% of Imax	35.7V x 35.8H
	At 90% of Imax	19.1V x 20.1H

Beam Flux	Total	1233.0 lumens per klm.
	To 10% of Imax	1157.0 lumens per klm.
	To 50% of Imax	842.9 lumens per klm.
	To 90% of Imax	306.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	123.3 %

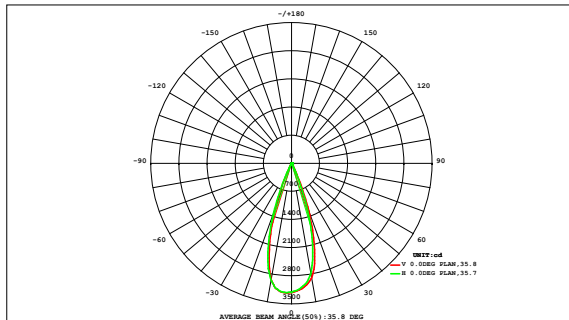
Luminaire Efficiency (Light Output Ratio)	123.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 November 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93M20TL1240/BL	Imax (cd)	3229
NOMINAL POWER (W)	12	AVAILABILITY (%)	115.9
RATED VOLTAGE (V)	48	Avai. FLUX (lm)	1020
NOMINAL FLUX (lm)	880	LOR (%)	123.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1082
TEST VOLTAGE (V)	48	θ @50% (H,V)	36,36DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
80	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.04	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.23	0.00
70	0.00	0.00	0.00	0.01	0.02	0.04	0.07	0.09	0.10	0.10	0.08	0.06	0.04	0.02	0.01	0.00	0.00	0.00	0.64	0.00
60	0.00	0.00	0.00	0.02	0.05	0.08	0.13	0.18	0.21	0.21	0.18	0.13	0.08	0.04	0.02	0.00	0.00	0.00	1.34	0.00
50	0.00	0.00	0.01	0.03	0.07	0.14	0.26	0.46	0.70	0.64	0.40	0.24	0.13	0.07	0.03	0.01	0.00	0.00	3.19	0.00
40	0.00	0.00	0.01	0.04	0.10	0.23	0.85	5.31	13.6	13.3	4.48	0.58	0.21	0.09	0.04	0.01	0.00	0.00	38.9	26.2
30	0.00	0.00	0.01	0.05	0.13	0.37	5.03	32.2	62.5	61.6	30.3	3.77	0.31	0.12	0.05	0.01	0.00	0.00	197	189
20	0.00	0.00	0.02	0.05	0.15	0.62	12.5	59.8	91.8	92.6	57.2	10.2	0.42	0.14	0.06	0.02	0.00	0.00	326	320
10	0.00	0.00	0.02	0.06	0.15	0.59	11.6	57.3	88.7	90.0	55.2	9.37	0.42	0.15	0.06	0.02	0.00	0.00	314	307
0	0.00	0.00	0.01	0.05	0.14	0.36	3.77	27.3	54.9	54.3	25.2	3.08	0.30	0.13	0.05	0.01	0.00	0.00	170	162
-10	0.00	0.00	0.01	0.04	0.11	0.22	0.65	3.50	9.51	9.40	3.18	0.50	0.21	0.10	0.04	0.01	0.00	0.00	27.5	15.1
-20	0.00	0.00	0.01	0.03	0.08	0.15	0.24	0.37	0.53	0.50	0.35	0.23	0.14	0.07	0.03	0.01	0.00	0.00	2.73	0.00
-30	0.00	0.00	0.00	0.02	0.05	0.09	0.13	0.18	0.20	0.20	0.17	0.13	0.08	0.04	0.02	0.00	0.00	0.00	1.31	0.00
-40	0.00	0.00	0.00	0.01	0.02	0.04	0.07	0.08	0.09	0.09	0.08	0.06	0.04	0.02	0.01	0.00	0.00	0.00	0.62	0.00
-50	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.19	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
-70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
HORIZONTAL (DEG)																				
Φ t	0.00	0.01	0.11	0.42	1.07	2.98	35.4	187	323	323	177	28.4	2.40	1.02	0.40	0.10	0.00	0.00	1082	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	22.5	179	316	316	169	17.3	0.00	0.00	0.00	0.00	0.00	0.00	---	1020

one-half-peak spread: U:17.3,D:16.1 , L:20.8,R:15.2

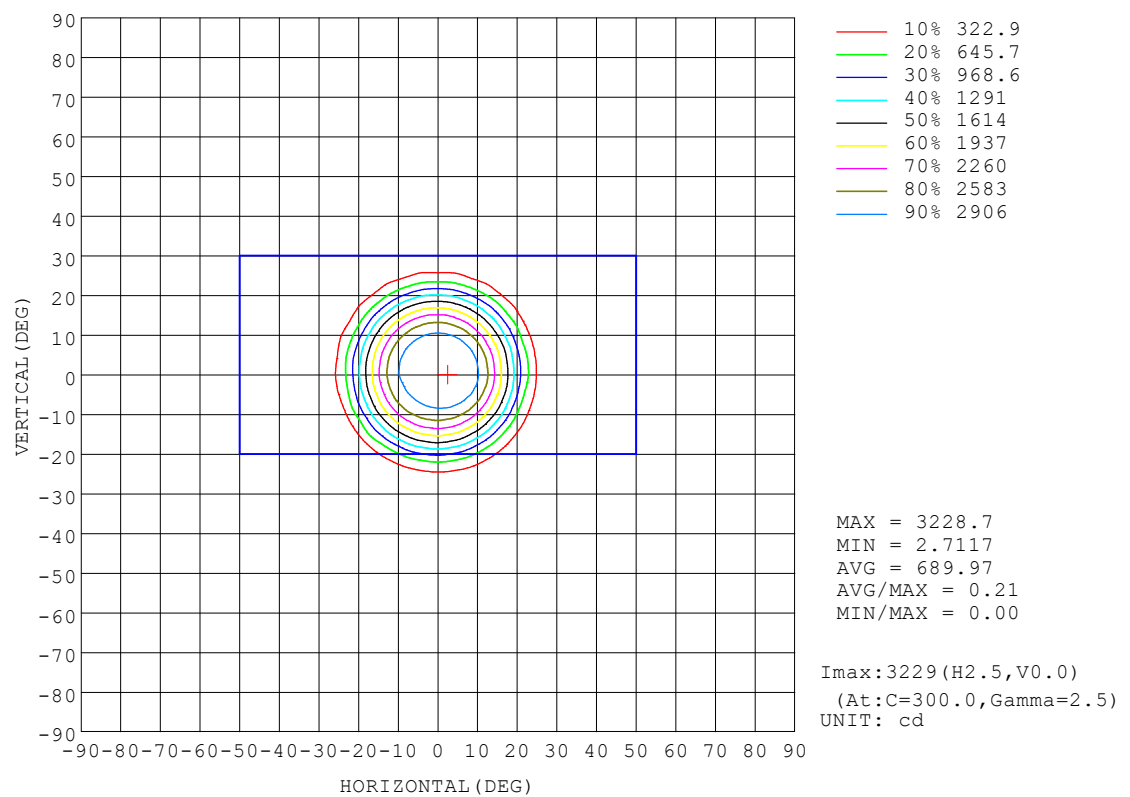
NEMA Beam Type: Type 4

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:11 November 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:

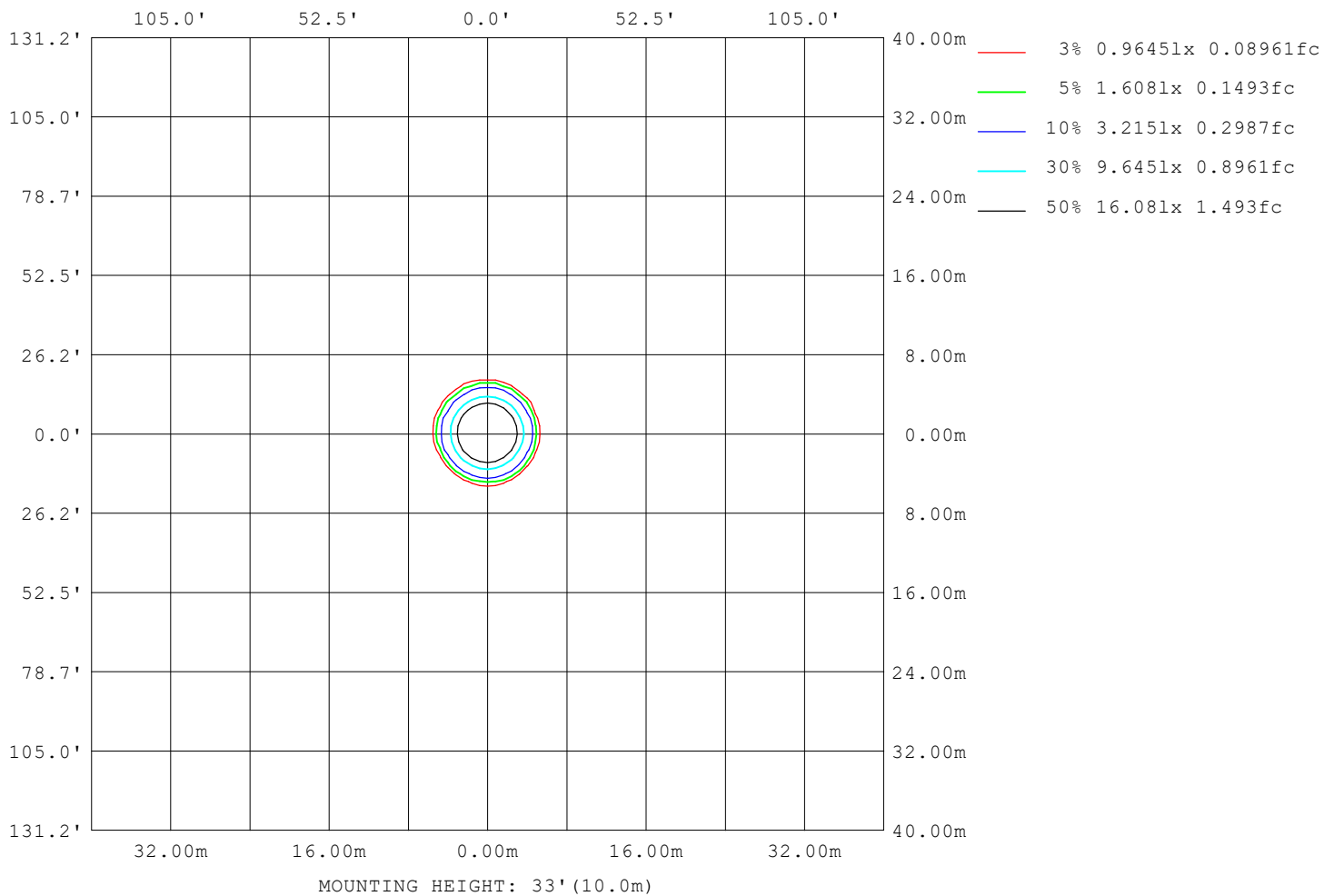


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C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:11 November 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

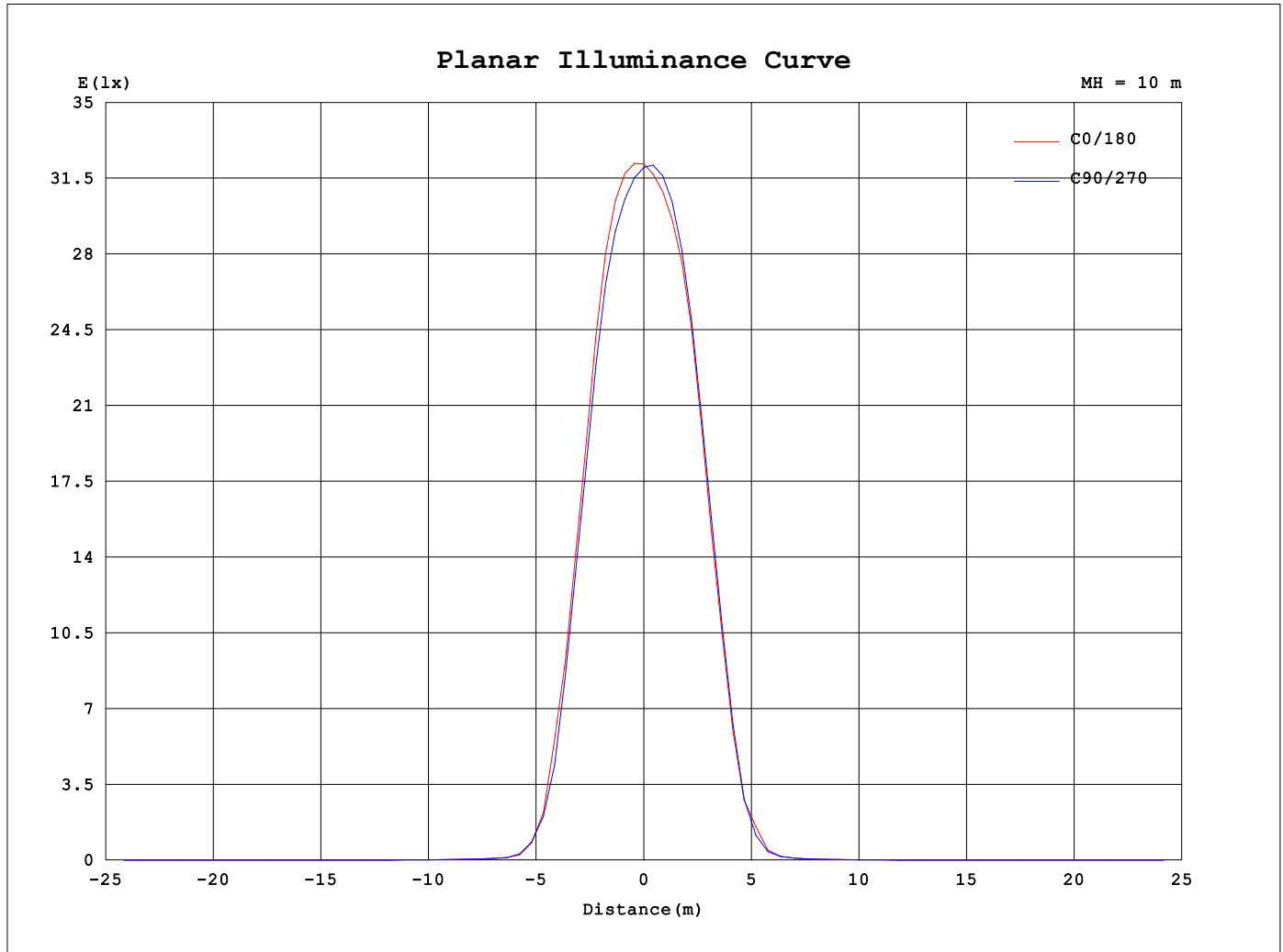
NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 November 2022

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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve

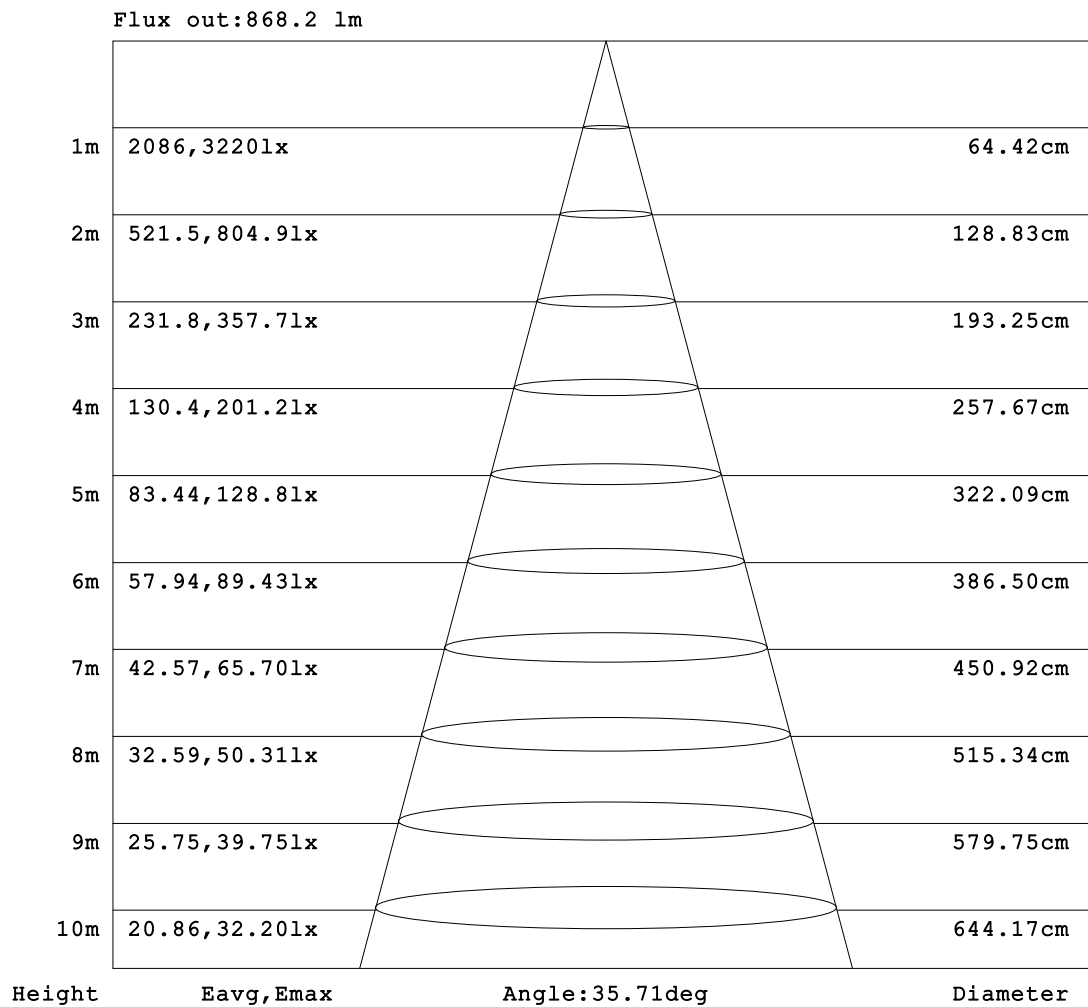


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 11 November 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

AAI Figure

NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



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

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 11 November 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:

Table--1

UNIT: cd

H (DEG) V (DEG)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-90	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-80	0.02	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
-75	0.02	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.01	0.02	0.01	0.00
-70	0.02	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.05	0.08	0.14	0.19	0.24	0.28	0.29	0.29
-65	0.02	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.05	0.12	0.26	0.41	0.61	0.79	0.92	1.00	1.03	1.01	0.97
-60	0.02	0.01	0.00	0.01	0.01	0.01	0.01	0.08	0.27	0.52	0.81	1.08	1.33	1.56	1.71	1.83	1.89	1.90	1.85
-55	0.02	0.01	0.01	0.00	0.01	0.02	0.09	0.34	0.69	1.07	1.43	1.77	2.13	2.37	2.55	2.82	2.99	3.07	3.06
-50	0.02	0.01	0.01	0.00	0.01	0.06	0.30	0.70	1.17	1.60	2.11	2.50	2.98	3.45	3.85	4.19	4.44	4.58	4.58
-45	0.02	0.01	0.01	0.00	0.01	0.14	0.58	1.10	1.60	2.24	2.75	3.49	4.16	4.72	5.44	6.00	6.34	6.54	6.59
-40	0.02	0.01	0.01	0.00	0.02	0.33	0.87	1.45	2.13	2.77	3.68	4.51	5.55	6.51	7.32	8.06	8.83	9.28	9.37
-35	0.02	0.01	0.01	0.00	0.08	0.51	1.16	1.78	2.55	3.55	4.54	5.84	7.08	8.44	10.0	11.5	13.5	14.5	14.8
-30	0.02	0.01	0.01	0.01	0.13	0.70	1.39	2.20	3.05	4.21	5.58	7.14	9.03	11.5	15.3	21.8	36.2	44.8	44.1
-25	0.02	0.02	0.01	0.01	0.21	0.88	1.57	2.44	3.57	4.84	6.63	8.69	11.8	17.8	39.0	86.5	165	240	272
-20	0.02	0.02	0.01	0.01	0.31	1.02	1.75	2.68	3.98	5.58	7.67	10.7	16.4	40.6	116	310	623	928	1029
-15	0.02	0.02	0.01	0.01	0.38	1.12	1.91	2.98	4.33	6.25	8.71	12.7	26.3	98.2	334	923	1503	1882	2010
-10	0.02	0.02	0.02	0.01	0.43	1.18	2.02	3.11	4.54	6.76	9.75	15.7	46.0	196	750	1574	2246	2647	2790
-5	0.02	0.02	0.02	0.02	0.47	1.21	2.08	3.14	4.54	6.79	10.1	17.6	64.7	324	1097	2014	2717	2990	3088
0	0.02	0.02	0.02	0.02	0.49	1.21	2.09	3.08	4.40	6.63	9.95	17.8	72.0	375	1262	2231	2895	3126	3215
5	0.02	0.02	0.02	0.02	0.48	1.21	2.08	3.07	4.39	6.60	9.83	17.3	90.3	350	1174	2115	2807	3101	3199
10	0.02	0.02	0.02	0.02	0.46	1.17	2.03	2.99	4.26	6.34	9.37	15.7	53.0	282	848	1723	2440	2828	2954
15	0.02	0.02	0.02	0.03	0.42	1.10	1.92	2.82	4.03	5.86	8.52	13.1	28.5	145	425	1110	1737	2146	2281
20	0.02	0.02	0.02	0.03	0.35	0.99	1.75	2.55	3.72	5.26	7.48	10.9	17.9	54.9	195	421	869	1209	1310
25	0.02	0.02	0.02	0.03	0.27	0.84	1.55	2.34	3.32	4.53	6.35	8.77	12.9	21.4	61.5	146	249	359	381
30	0.02	0.02	0.02	0.03	0.18	0.71	1.34	2.11	2.84	3.92	5.25	7.03	9.50	13.1	18.8	30.1	61.4	62.5	61.3
35	0.02	0.02	0.02	0.03	0.12	0.56	1.08	1.74	2.39	3.25	4.30	5.57	7.12	8.91	11.3	13.9	16.7	18.2	18.3
40	0.02	0.02	0.02	0.03	0.05	0.39	0.80	1.39	1.99	2.60	3.46	4.37	5.34	6.50	7.67	8.74	9.91	10.5	10.6
45	0.02	0.02	0.02	0.03	0.03	0.19	0.62	1.05	1.54	2.06	2.63	3.33	4.12	4.67	5.34	6.00	6.58	6.94	7.04
50	0.02	0.02	0.02	0.02	0.03	0.08	0.38	0.73	1.13	1.55	1.98	2.43	2.92	3.43	3.96	4.26	4.44	4.56	4.58
55	0.02	0.02	0.02	0.02	0.02	0.02	0.15	0.45	0.74	1.06	1.40	1.75	2.06	2.38	2.61	2.84	3.01	3.12	3.17
60	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.16	0.40	0.65	0.87	1.12	1.36	1.58	1.75	1.90	2.03	2.09	2.10
65	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.09	0.23	0.43	0.61	0.75	0.88	1.00	1.09	1.14	1.18	1.18
70	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.06	0.15	0.22	0.32	0.42	0.47	0.50	0.52	0.53
75	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.03	0.03	0.05
80	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02
85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:11 November 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 93M20TL1240/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F42 x 165	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	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	
-90	0.00	0.00	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-85	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-80	0.00	0.01	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	0.01	0.02	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-70	0.29	0.28	0.24	0.18	0.11	0.06	0.03	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-65	0.94	0.90	0.87	0.82	0.77	0.59	0.37	0.21	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-60	1.80	1.72	1.63	1.53	1.38	1.12	0.91	0.78	0.47	0.21	0.05	0.01	0.01	0.00	0.00	0.00	0.00	0.00	
-55	2.96	2.83	2.67	2.48	2.18	1.80	1.57	1.20	0.90	0.63	0.26	0.05	0.01	0.01	0.00	0.00	0.00	0.00	
-50	4.53	4.36	4.06	3.69	3.22	2.78	2.30	1.75	1.40	0.95	0.64	0.22	0.04	0.01	0.00	0.00	0.00	0.00	
-45	6.47	6.24	5.80	5.23	4.68	3.97	3.17	2.56	1.83	1.40	0.92	0.49	0.09	0.01	0.00	0.00	0.00	0.00	
-40	9.16	8.70	7.89	7.11	6.24	5.29	4.36	3.38	2.59	1.78	1.23	0.81	0.25	0.01	0.00	0.00	0.00	0.00	
-35	14.3	13.1	11.2	9.69	8.12	6.83	5.50	4.38	3.29	2.34	1.61	0.95	0.42	0.05	0.00	0.00	0.00	0.00	
-30	35.5	26.9	18.1	14.0	10.8	8.54	6.84	5.35	4.02	2.88	1.85	1.16	0.62	0.08	0.00	0.00	0.00	0.00	
-25	245	164	71.4	26.0	15.1	10.8	8.17	6.33	4.72	3.36	2.25	1.44	0.79	0.16	0.00	0.00	0.00	0.00	
-20	907	594	295	104	26.5	14.0	9.76	7.25	5.36	3.87	2.61	1.64	0.88	0.24	0.01	0.00	0.00	0.00	
-15	1862	1451	825	293	76.0	18.2	11.4	8.09	5.96	4.28	2.90	1.77	0.95	0.31	0.01	0.00	0.00	0.00	
-10	2643	2200	1491	622	161	27.9	13.2	8.95	6.47	4.55	3.09	1.87	1.01	0.35	0.01	0.00	0.00	0.00	
-5	3064	2723	1935	976	257	37.0	14.5	9.48	6.79	4.70	3.21	1.94	1.04	0.39	0.01	0.00	0.00	0.00	
0	3208	2939	2126	1112	295	38.6	15.0	9.67	6.91	4.75	3.24	1.97	1.06	0.40	0.01	0.01	0.00	0.00	
5	3145	2803	2016	1042	274	36.7	14.3	9.13	6.50	4.49	3.10	1.93	1.05	0.40	0.02	0.01	0.00	0.00	
10	2827	2375	1617	768	184	29.3	13.1	8.47	5.94	4.13	2.90	1.86	1.03	0.38	0.02	0.01	0.00	0.00	
15	2109	1668	1028	377	81.5	19.7	11.3	7.80	5.50	3.81	2.65	1.75	0.98	0.34	0.02	0.01	0.01	0.00	
20	1181	831	396	156	29.8	14.7	9.69	6.91	4.90	3.49	2.44	1.61	0.91	0.28	0.02	0.01	0.01	0.00	
25	354	230	114	30.8	16.7	11.2	8.12	5.94	4.21	3.10	2.18	1.43	0.81	0.21	0.02	0.01	0.01	0.00	
30	53.4	36.5	22.6	15.8	11.5	8.80	6.67	4.93	3.70	2.71	1.87	1.20	0.65	0.14	0.02	0.01	0.01	0.00	
35	17.2	15.2	12.6	10.4	8.46	6.81	5.20	4.05	3.08	2.31	1.62	0.99	0.46	0.09	0.02	0.02	0.01	0.00	
40	10.3	9.56	8.45	7.43	6.25	5.04	4.10	3.25	2.57	1.87	1.28	0.81	0.30	0.04	0.03	0.02	0.01	0.00	
45	6.94	6.56	5.92	5.22	4.45	3.77	3.12	2.61	1.96	1.49	0.98	0.54	0.15	0.03	0.02	0.02	0.01	0.00	
50	4.56	4.40	4.07	3.66	3.22	2.80	2.38	1.89	1.52	1.04	0.70	0.30	0.06	0.02	0.02	0.02	0.01	0.00	
55	3.14	3.02	2.82	2.56	2.25	1.94	1.70	1.34	0.99	0.70	0.37	0.12	0.02	0.02	0.02	0.02	0.01	0.00	
60	2.07	1.98	1.86	1.71	1.52	1.26	1.04	0.85	0.57	0.33	0.14	0.03	0.02	0.02	0.02	0.02	0.01	0.00	
65	1.16	1.11	1.04	0.96	0.85	0.70	0.53	0.36	0.18	0.08	0.03	0.03	0.02	0.02	0.02	0.02	0.01	0.00	
70	0.51	0.47	0.42	0.36	0.28	0.20	0.13	0.05	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.00	
75	0.03	0.02	0.03	0.03	0.03	0.02	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	
80	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	
85	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	
90	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.00	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:11 November 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks: