

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3569.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	58.3V x 58.4H
	At 50% of Imax	23.9V x 23.9H
	At 90% of Imax	9.9V x 10.0H

Beam Flux	Total	982.3 lumens per klm.
	To 10% of Imax	869.7 lumens per klm.
	To 50% of Imax	379.0 lumens per klm.
	To 90% of Imax	81.3 lumens per klm.

Upward LOR	0.0 %
Downward LOR	98.2 %

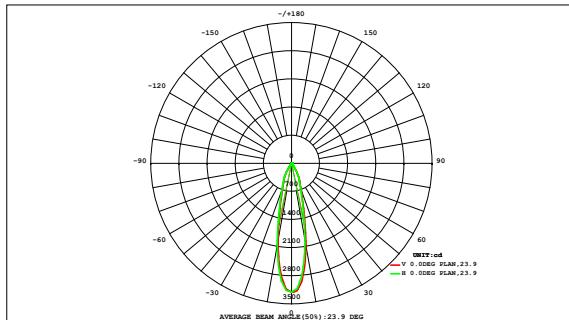
Luminaire Efficiency (Light Output Ratio)	97.9 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 November 2022

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: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93M20PL0930/BL	Imax (cd)	3213
NOMINAL POWER (W)	9	AVAILABILITY (%)	85.5
RATED VOLTAGE (V)	48	Avai. FLUX (lm)	769.6
NOMINAL FLUX (lm)	900	LOR (%)	97.9
LAMPS INSIDE	1	TOTAL FLUX (lm)	881.0
TEST VOLTAGE (V)	48	θ @50% (H,V)	24,24DEG

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	0.00	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	0.16	0.00
70	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.96	0.00
60	0.00	0.00	0.00	0.00	0.02	0.05	0.09	0.14	0.19	0.19	0.14	0.08	0.04	0.01	0.00	0.00	0.00	0.00	4.41	0.00
50	0.00	0.00	0.00	0.01	0.05	0.16	0.44	0.70	0.82	0.84	0.72	0.45	0.15	0.05	0.01	0.00	0.00	0.00	13.4	0.00
40	0.00	0.00	0.00	0.03	0.14	0.55	0.86	1.82	3.31	3.27	1.75	0.88	0.56	0.13	0.03	0.00	0.00	0.00	56.7	39.6
30	0.00	0.00	0.01	0.05	0.37	0.78	3.40	9.99	14.2	13.9	9.51	3.23	0.82	0.34	0.05	0.01	0.00	0.00	129	119
20	0.00	0.00	0.01	0.09	0.56	1.56	9.34	19.9	34.6	33.5	18.7	8.73	1.49	0.53	0.08	0.01	0.00	0.00	244	235
10	0.00	0.00	0.01	0.12	0.63	2.77	12.8	33.1	75.5	72.6	30.9	12.1	2.63	0.62	0.11	0.01	0.00	0.00	239	229
0	0.00	0.00	0.01	0.12	0.64	2.84	12.8	32.7	73.1	70.5	30.4	12.1	2.59	0.63	0.11	0.01	0.00	0.00	122	112
-10	0.00	0.00	0.01	0.09	0.58	1.56	9.09	19.1	32.2	30.9	18.0	8.46	1.48	0.55	0.08	0.01	0.00	0.00	53.3	35.1
-20	0.00	0.00	0.00	0.03	0.15	0.60	0.94	1.80	3.10	3.00	1.65	0.88	0.53	0.13	0.03	0.00	0.00	0.00	12.9	0.00
-30	0.00	0.00	0.00	0.01	0.06	0.17	0.46	0.74	0.87	0.85	0.70	0.42	0.15	0.06	0.01	0.00	0.00	0.00	4.49	0.00
-40	0.00	0.00	0.00	0.00	0.02	0.05	0.09	0.14	0.18	0.18	0.13	0.09	0.05	0.01	0.00	0.00	0.00	0.00	0.94	0.00
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.03	0.03	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.15	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	0.08	0.63	3.61	12.0	53.6	130	251	243	122	50.3	11.3	3.41	0.58	0.07	0.01	0.00	881	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	37.0	118	240	232	110	32.8	0.00	0.00	0.00	0.00	0.00	0.00	---	770

one-half-peak spread: U:11.7,D:12.4 , L:12.3,R:11.8

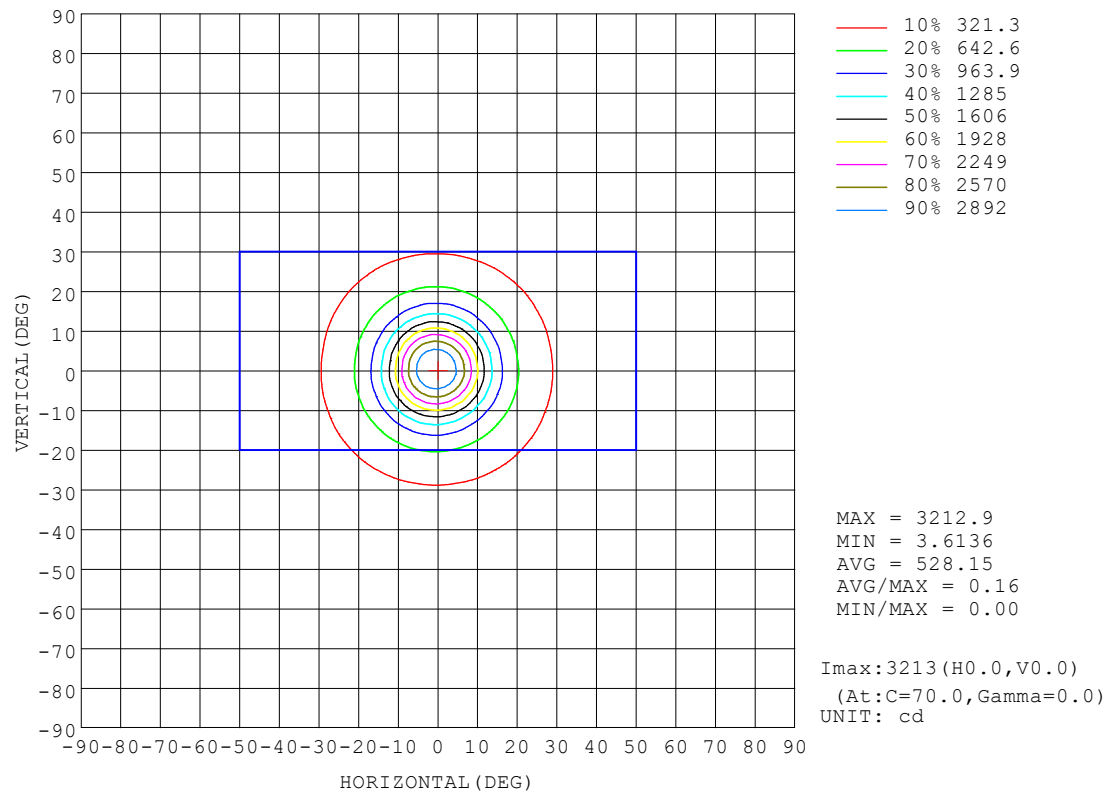
NEMA Beam Type: Type 4

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: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:

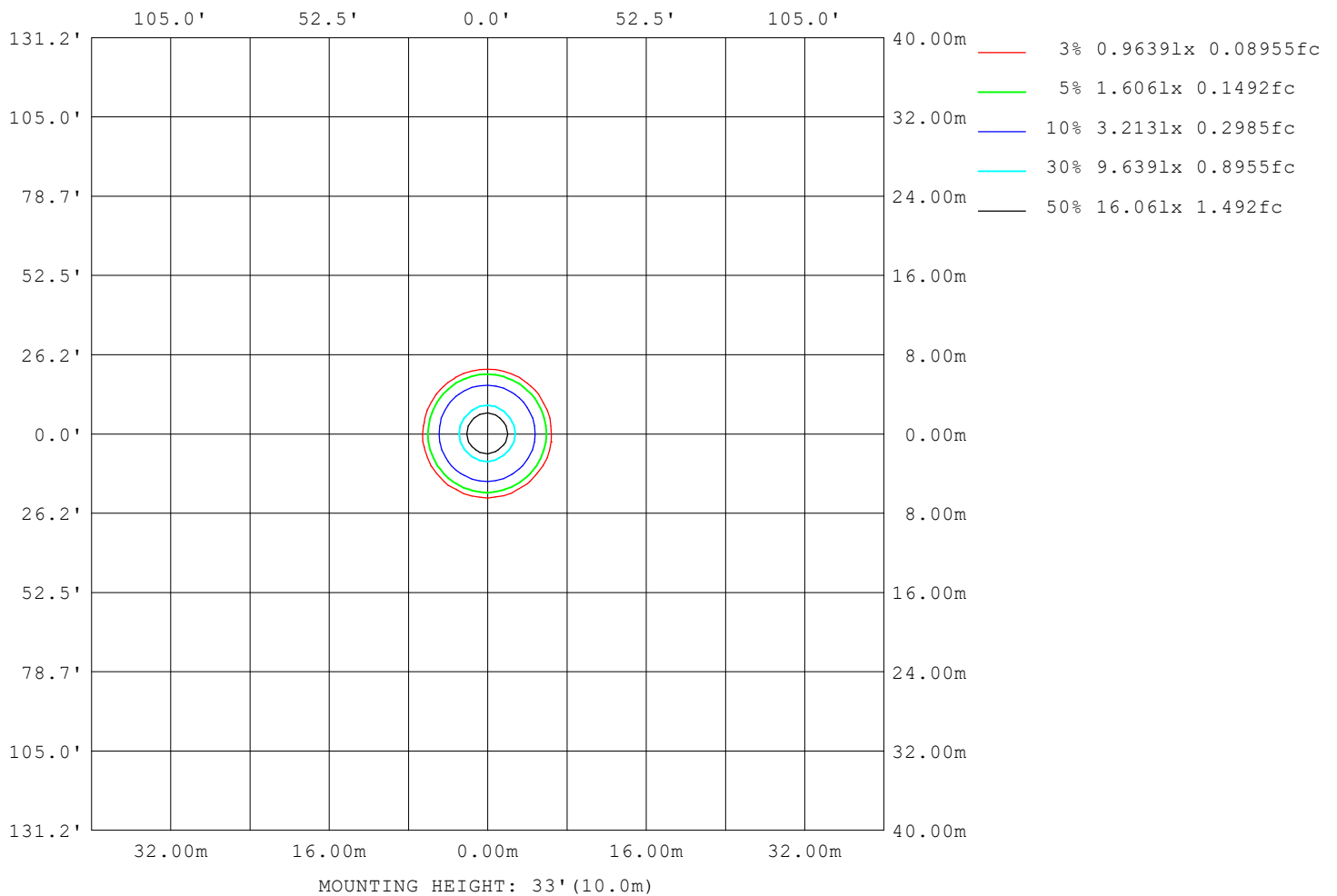


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 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 11 November 2022

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 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

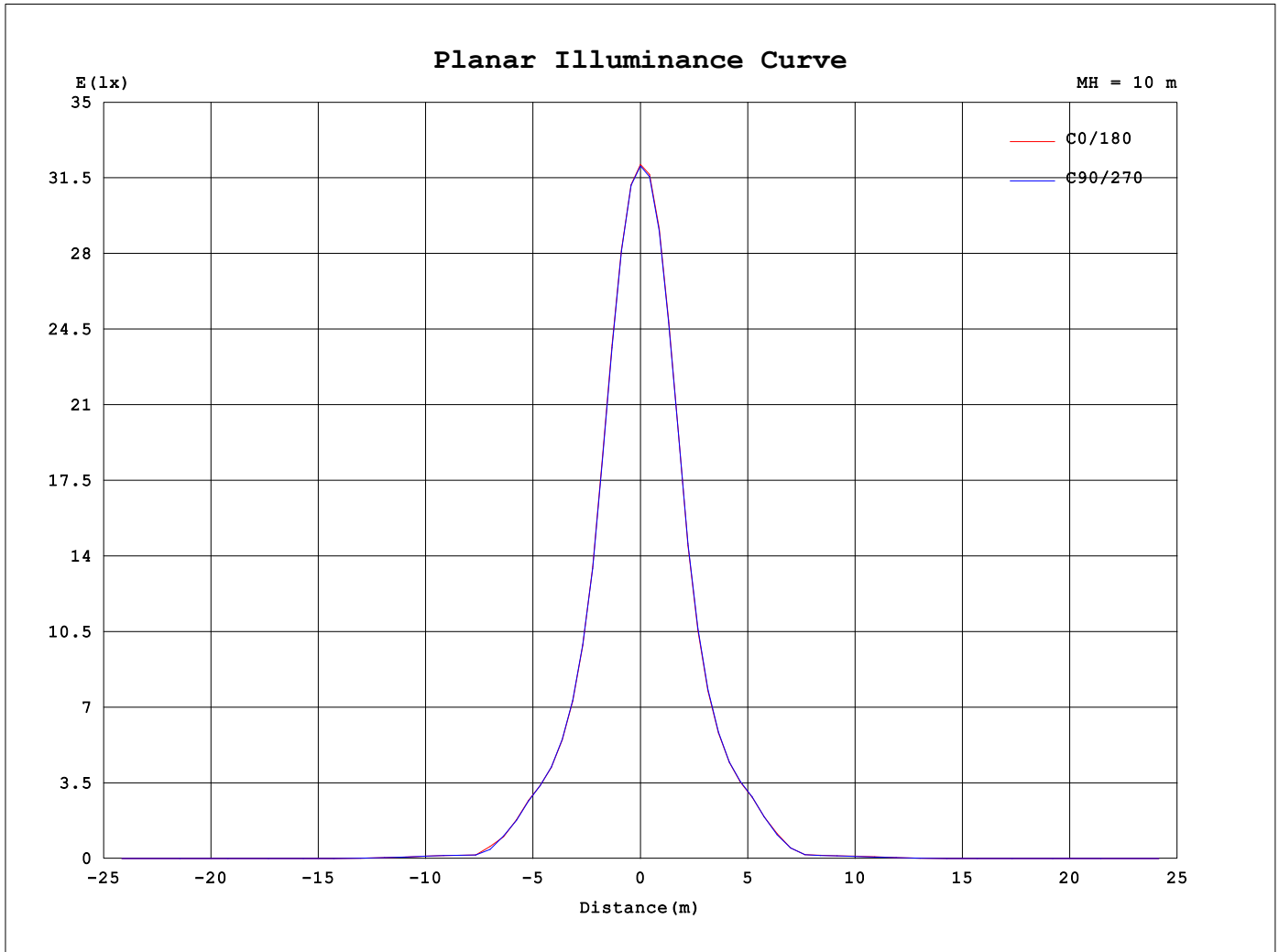
NAME: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



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

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:

Planar Illuminance Curve

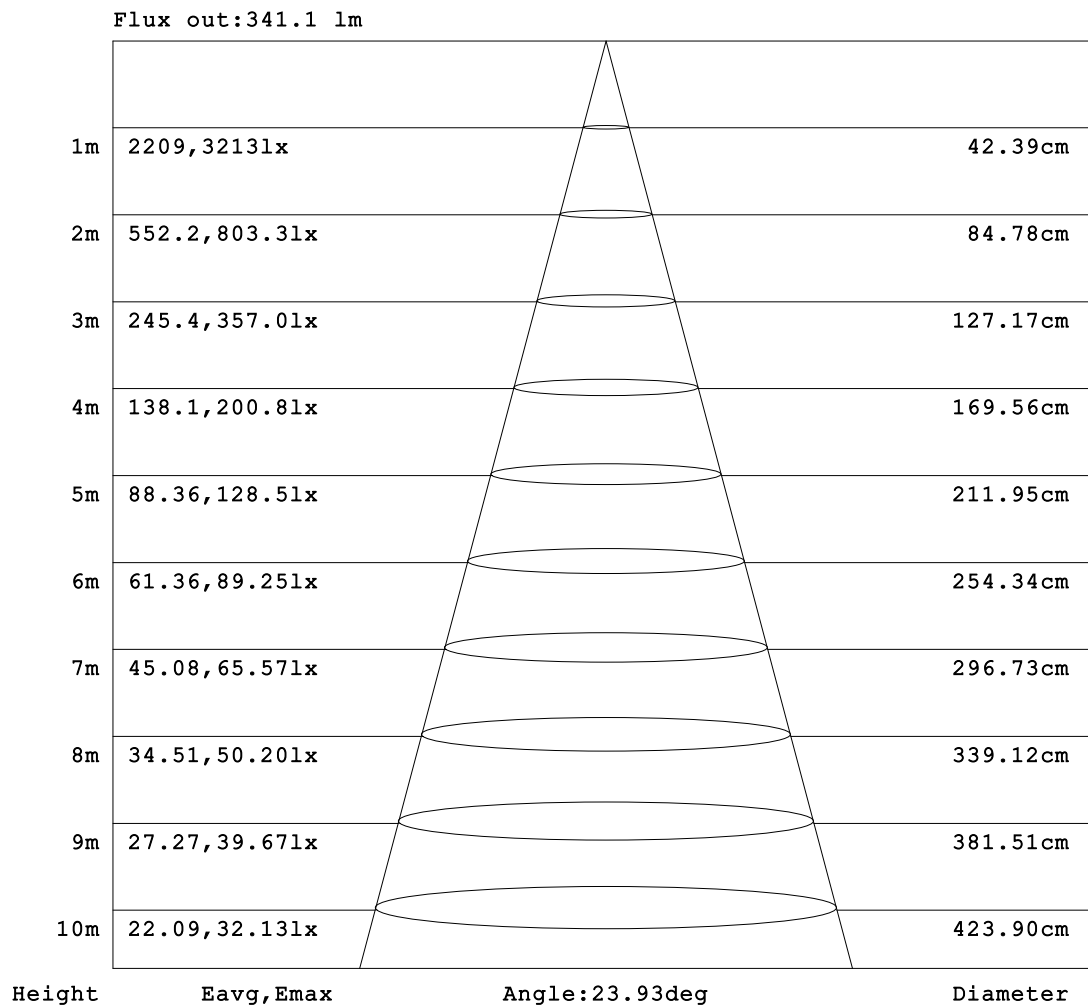


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 11 November 2022

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: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	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: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	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	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-85	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00
-80	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.01	0.00	0.01	0.03	0.02	0.01	0.02	0.04	0.02	0.01
-75	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.01	0.03	0.03	0.02	0.04	0.05	0.05	0.04	0.06	0.08	0.06	0.05
-70	0.01	0.00	0.00	0.00	0.02	0.02	0.01	0.03	0.05	0.06	0.06	0.08	0.11	0.11	0.11	0.13	0.15	0.14	0.13
-65	0.01	0.00	0.00	0.01	0.03	0.03	0.03	0.05	0.09	0.11	0.13	0.15	0.19	0.22	0.32	0.40	0.46	0.48	0.48
-60	0.01	0.00	0.00	0.01	0.03	0.05	0.06	0.08	0.13	0.18	0.22	0.47	0.95	1.69	2.17	2.44	2.66	2.78	2.84
-55	0.01	0.00	0.00	0.01	0.04	0.07	0.09	0.13	0.20	0.45	1.25	2.20	2.59	2.97	3.38	3.90	4.30	4.52	4.58
-50	0.01	0.01	0.00	0.02	0.05	0.10	0.14	0.20	0.60	1.84	2.60	3.18	3.98	5.31	7.37	10.7	13.4	15.0	15.4
-45	0.01	0.01	0.00	0.02	0.06	0.12	0.19	0.53	1.83	2.70	3.57	5.24	9.19	15.9	22.4	27.3	30.1	31.6	31.8
-40	0.01	0.01	0.00	0.03	0.07	0.14	0.25	1.29	2.53	3.57	6.19	13.3	22.9	29.9	33.1	34.3	33.9	34.0	33.8
-35	0.01	0.01	0.01	0.03	0.09	0.17	0.60	2.10	3.13	5.46	13.7	25.4	33.1	34.3	34.5	35.2	61.4	89.4	77.4
-30	0.01	0.01	0.01	0.04	0.10	0.20	1.10	2.50	4.04	10.0	23.8	33.3	33.7	35.7	81.6	151	220	256	272
-25	0.01	0.01	0.02	0.05	0.11	0.24	1.69	2.94	5.81	17.7	30.8	34.8	35.8	95.4	223	329	408	442	455
-20	0.01	0.01	0.02	0.05	0.12	0.45	2.06	3.36	8.70	24.3	33.7	34.7	79.3	221	375	468	557	640	665
-15	0.01	0.01	0.02	0.06	0.12	0.60	2.27	3.98	12.7	28.9	33.9	36.8	158	342	473	625	833	1038	1098
-10	0.01	0.01	0.02	0.06	0.13	0.71	2.40	4.36	16.1	31.3	33.0	65.6	231	422	570	847	1281	1744	1927
-5	0.01	0.01	0.02	0.06	0.13	0.76	2.46	4.55	18.0	32.3	33.0	86.2	284	463	667	1077	1815	2573	2843
0	0.01	0.01	0.02	0.06	0.12	0.77	2.46	4.57	18.5	32.3	33.7	91.1	298	476	701	1171	2071	2949	3213
5	0.01	0.01	0.03	0.06	0.13	0.75	2.43	4.46	17.8	31.8	32.1	83.7	280	464	671	1097	1858	2670	2939
10	0.01	0.01	0.03	0.07	0.13	0.69	2.34	4.17	15.7	30.5	31.4	64.3	233	432	583	871	1347	1882	2067
15	0.01	0.01	0.03	0.07	0.13	0.58	2.20	3.73	12.4	27.9	31.8	36.3	160	351	489	652	879	1106	1181
20	0.01	0.01	0.03	0.07	0.13	0.42	2.01	3.13	8.58	23.5	31.3	31.5	81.0	231	394	490	589	681	706
25	0.01	0.01	0.03	0.07	0.12	0.22	1.64	2.76	5.62	17.2	28.3	30.6	33.7	104	232	355	433	470	478
30	0.01	0.01	0.03	0.07	0.11	0.18	1.10	2.36	3.72	9.70	22.0	30.0	29.7	34.1	83.7	163	235	286	298
35	0.01	0.01	0.03	0.06	0.10	0.15	0.63	1.95	2.80	4.91	13.1	23.6	29.9	30.5	31.5	36.1	65.1	86.4	90.9
40	0.01	0.01	0.03	0.06	0.08	0.12	0.20	1.25	2.25	3.12	5.86	12.9	21.4	27.5	30.1	30.9	30.4	30.7	31.6
45	0.01	0.01	0.03	0.05	0.07	0.10	0.15	0.56	1.62	2.40	3.19	5.00	9.16	15.8	21.6	25.6	28.2	29.7	30.3
50	0.01	0.01	0.03	0.04	0.05	0.07	0.12	0.20	0.68	1.69	2.37	3.00	3.89	5.49	7.84	11.0	14.2	16.2	17.0
55	0.01	0.01	0.02	0.03	0.04	0.06	0.10	0.15	0.19	0.60	1.38	2.16	2.60	3.02	3.34	3.82	4.23	4.49	4.60
60	0.01	0.01	0.02	0.03	0.03	0.04	0.08	0.11	0.12	0.15	0.23	0.74	1.29	1.86	2.18	2.37	2.52	2.62	2.66
65	0.01	0.01	0.02	0.02	0.02	0.03	0.06	0.08	0.08	0.10	0.13	0.16	0.18	0.22	0.47	0.66	0.82	0.87	0.83
70	0.01	0.01	0.02	0.02	0.01	0.02	0.05	0.05	0.05	0.06	0.09	0.09	0.09	0.11	0.13	0.13	0.12	0.14	0.15
75	0.01	0.01	0.02	0.01	0.01	0.02	0.04	0.03	0.02	0.04	0.06	0.06	0.05	0.06	0.08	0.07	0.06	0.08	0.09
80	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.02	0.01	0.02	0.04	0.03	0.02	0.03	0.05	0.04	0.03	0.04	0.05
85	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.02	0.02	0.02	0.01	0.02	0.02
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01

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: 93M20PL0930/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F50 x 220	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	0.00	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	
-85	0.00	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	0.00	0.00	0.00	0.00	
-80	0.02	0.03	0.02	0.00	0.02	0.02	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-75	0.06	0.07	0.05	0.04	0.05	0.05	0.03	0.02	0.03	0.03	0.01	0.00	0.01	0.01	0.00	0.00	0.00	0.00	
-70	0.14	0.14	0.12	0.10	0.10	0.10	0.07	0.05	0.06	0.05	0.02	0.01	0.02	0.01	0.00	0.00	0.00	0.00	
-65	0.46	0.42	0.36	0.28	0.21	0.18	0.13	0.11	0.10	0.07	0.04	0.03	0.03	0.02	0.01	0.00	0.00	0.00	
-60	2.77	2.64	2.49	2.31	1.82	0.90	0.35	0.20	0.17	0.12	0.07	0.05	0.04	0.03	0.01	0.00	0.00	0.00	
-55	4.41	4.18	3.90	3.53	3.25	2.83	2.34	1.15	0.34	0.18	0.11	0.08	0.06	0.03	0.01	0.00	0.00	0.00	
-50	14.4	12.5	9.96	7.05	5.32	4.07	3.28	2.62	1.76	0.38	0.17	0.12	0.09	0.04	0.01	0.00	0.00	0.00	
-45	30.7	28.5	25.4	20.5	14.1	8.18	4.88	3.44	2.71	1.76	0.34	0.16	0.10	0.05	0.01	0.00	0.00	0.00	
-40	33.0	32.9	33.1	31.2	27.6	20.3	11.1	5.38	3.44	2.58	1.12	0.22	0.12	0.06	0.02	0.01	0.00	0.00	
-35	85.5	56.0	32.7	32.2	32.8	30.6	22.2	11.3	4.81	3.16	2.16	0.38	0.15	0.07	0.03	0.01	0.00	0.00	
-30	249	209	136	69.3	31.6	32.3	30.8	20.6	8.16	3.91	2.68	0.87	0.17	0.08	0.04	0.02	0.00	0.00	
-25	437	396	311	201	93.3	31.7	33.1	28.4	14.7	5.20	3.09	1.69	0.19	0.10	0.05	0.02	0.01	0.00	
-20	624	537	453	352	197	65.6	32.9	32.5	21.6	7.15	3.48	2.21	0.29	0.11	0.05	0.02	0.01	0.00	
-15	992	784	594	454	316	143	34.4	34.0	27.0	10.6	3.96	2.44	0.37	0.13	0.06	0.03	0.01	0.00	
-10	1654	1179	792	542	399	209	60.1	33.5	30.5	13.6	4.31	2.60	0.43	0.14	0.07	0.03	0.01	0.00	
-5	2469	1683	1001	629	441	260	78.3	33.3	32.0	15.4	4.54	2.69	0.47	0.15	0.07	0.03	0.01	0.00	
0	2849	1940	1094	662	455	276	102	34.0	32.3	16.0	4.64	2.72	0.48	0.16	0.08	0.04	0.01	0.00	
5	2552	1728	1021	628	439	257	91.8	33.7	31.3	15.1	4.43	2.63	0.46	0.15	0.08	0.04	0.01	0.00	
10	1791	1257	814	547	407	216	63.4	33.4	29.2	13.1	4.09	2.47	0.41	0.15	0.08	0.04	0.01	0.00	
15	1073	837	615	463	326	149	33.1	33.1	26.3	10.2	3.66	2.25	0.35	0.14	0.07	0.04	0.01	0.00	
20	665	565	467	371	215	86.0	32.6	32.1	21.6	7.01	3.18	1.99	0.27	0.12	0.07	0.04	0.01	0.00	
25	462	419	336	213	96.1	33.8	33.0	28.4	15.1	4.98	2.80	1.53	0.18	0.11	0.07	0.03	0.01	0.00	
30	281	225	158	83.4	32.8	32.5	31.0	21.3	8.43	3.61	2.39	0.79	0.15	0.10	0.06	0.03	0.01	0.00	
35	83.7	61.6	34.4	32.1	31.5	31.0	23.8	12.2	4.67	2.85	1.95	0.33	0.13	0.09	0.06	0.03	0.01	0.00	
40	30.6	31.1	31.8	31.2	28.4	21.7	12.4	5.51	3.15	2.29	1.01	0.16	0.10	0.07	0.05	0.03	0.01	0.00	
45	30.5	29.1	26.5	22.2	16.0	8.81	4.75	3.15	2.39	1.55	0.31	0.13	0.08	0.06	0.05	0.03	0.01	0.00	
50	16.5	14.6	11.3	7.76	5.30	3.65	2.82	2.27	1.55	0.37	0.16	0.10	0.06	0.05	0.04	0.02	0.01	0.00	
55	4.53	4.25	3.77	3.20	2.79	2.36	1.93	1.03	0.32	0.16	0.13	0.08	0.05	0.04	0.03	0.02	0.01	0.00	
60	2.63	2.52	2.31	2.05	1.61	0.90	0.38	0.18	0.13	0.11	0.09	0.07	0.04	0.03	0.02	0.02	0.00	0.00	
65	0.79	0.68	0.50	0.34	0.18	0.15	0.14	0.12	0.08	0.07	0.07	0.05	0.03	0.02	0.02	0.02	0.00	0.00	
70	0.14	0.12	0.13	0.13	0.10	0.09	0.09	0.08	0.06	0.04	0.05	0.04	0.02	0.01	0.02	0.01	0.00	0.00	
75	0.08	0.06	0.07	0.08	0.06	0.04	0.05	0.05	0.03	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.00	0.00	
80	0.04	0.02	0.03	0.04	0.03	0.01	0.02	0.03	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	
85	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	
90	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	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: