

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	53195.3 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-2.5 degrees horizontal

Beam Spread	At 10% of Imax	62.1V x 61.1H
	At 50% of Imax	33.4V x 33.0H
	At 90% of Imax	13.5V x 13.4H

Beam Flux	Total	20319.4 lumens per klm.
	To 10% of Imax	18415.7 lumens per klm.
	To 50% of Imax	10054.1 lumens per klm.
	To 90% of Imax	2051.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	2031.9 %

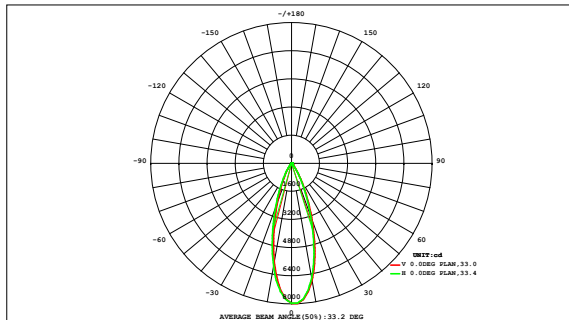
Luminaire Efficiency (Light Output Ratio)	2026.9 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 09 November 2022

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: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93M20TL0540/BL	Imax (cd)	7979
NOMINAL POWER (W)	5	AVAILABILITY (%)	1828.7
RATED VOLTAGE (V)	48	Avai. FLUX (lm)	2743
NOMINAL FLUX (lm)	150	LOR (%)	2026.9
LAMPS INSIDE	1	TOTAL FLUX (lm)	3040
TEST VOLTAGE (V)	48	θ @50% (H,V)	33,33DEG

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	0.00	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
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
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
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	0.00	0.00
50	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.07	0.12	0.11	0.06	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00
40	0.00	0.00	0.00	0.00	0.01	0.18	0.78	1.55	2.08	1.96	1.26	0.49	0.07	0.00	0.00	0.00	0.00	0.00	8.40	0.00
30	0.00	0.00	0.00	0.00	0.16	1.33	4.28	9.00	12.6	11.7	7.24	2.88	0.73	0.06	0.00	0.00	0.00	0.00	50.1	0.00
20	0.00	0.00	0.00	0.02	0.67	4.21	15.0	33.1	47.5	44.4	26.8	10.5	2.52	0.36	0.01	0.00	0.00	0.00	185	143
10	0.00	0.00	0.00	0.07	1.49	9.51	35.1	83.9	124	117	66.6	24.6	5.78	0.80	0.03	0.00	0.00	0.00	469	442
0	0.00	0.00	0.00	0.14	2.22	14.1	54.7	138	209	196	109	37.0	8.12	1.04	0.04	0.00	0.00	0.00	770	746
-10	0.00	0.00	0.00	0.14	2.13	13.3	52.1	135	214	204	110	36.6	7.82	0.93	0.04	0.00	0.00	0.00	776	752
-20	0.00	0.00	0.00	0.08	1.37	8.52	34.1	87.2	140	132	71.8	25.0	5.19	0.58	0.02	0.00	0.00	0.00	507	480
-30	0.00	0.00	0.00	0.03	0.60	3.84	15.4	36.4	56.2	53.7	30.8	11.0	2.21	0.23	0.01	0.00	0.00	0.00	210	173
-40	0.00	0.00	0.00	0.01	0.12	1.09	4.10	9.76	15.0	14.4	8.20	2.88	0.63	0.05	0.00	0.00	0.00	0.00	56.3	7.18
-50	0.00	0.00	0.00	0.00	0.02	0.13	0.66	1.54	2.15	1.93	1.19	0.44	0.07	0.01	0.00	0.00	0.00	0.00	8.14	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.01	0.04	0.08	0.13	0.11	0.06	0.03	0.01	0.00	0.00	0.00	0.00	0.00	0.45	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	0.02	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	0.00	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
	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)	20	30	40	50	60	70	80	90			
Φ t	0.00	0.00	0.00	0.48	8.79	56.3	216	535	824	778	433	151	33.2	4.06	0.15	0.00	0.00	0.00	3040	---
Φ a	0.00	0.00	0.00	0.00	0.00	8.40	179	504	796	749	402	105	0.00	0.00	0.00	0.00	0.00	0.00	---	2743

one-half-peak spread: U:15.2,D:15.9 , L:16.0,R:17.3

NEMA Beam Type: Type 4

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:09 November 2022

γ Range: 0 - 90DEG

γ Interval: 2.5DEG

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

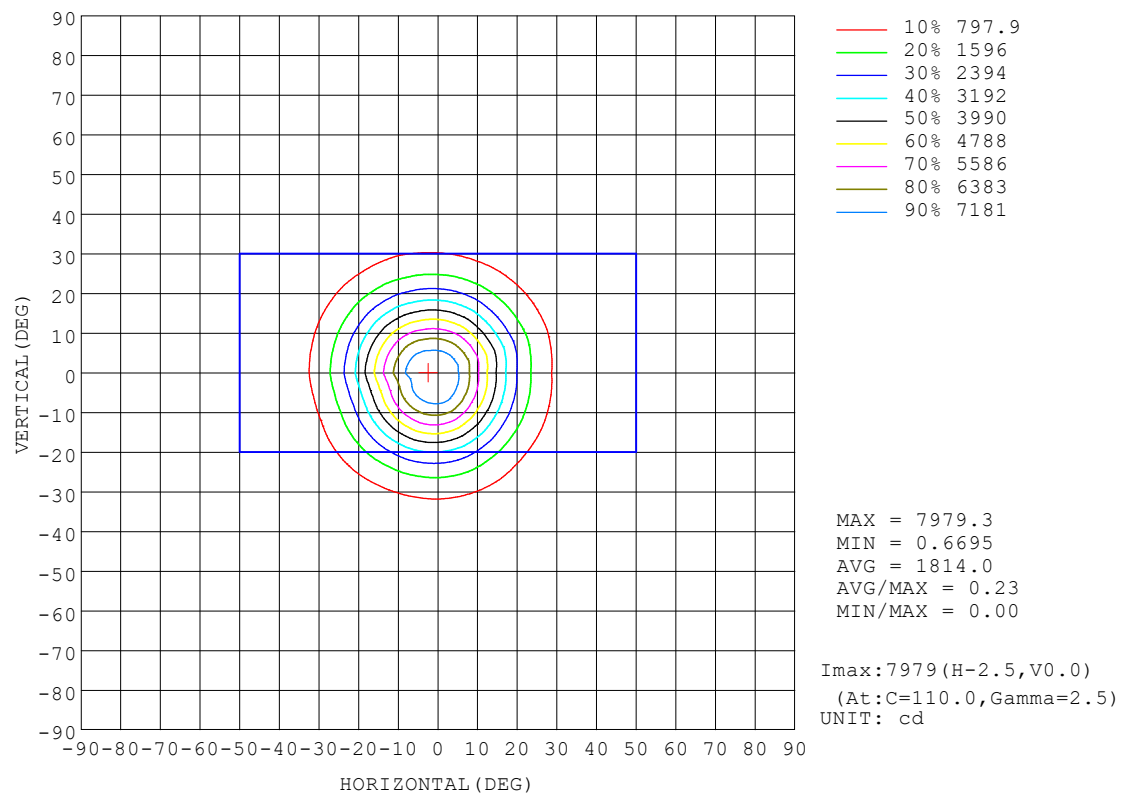
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:

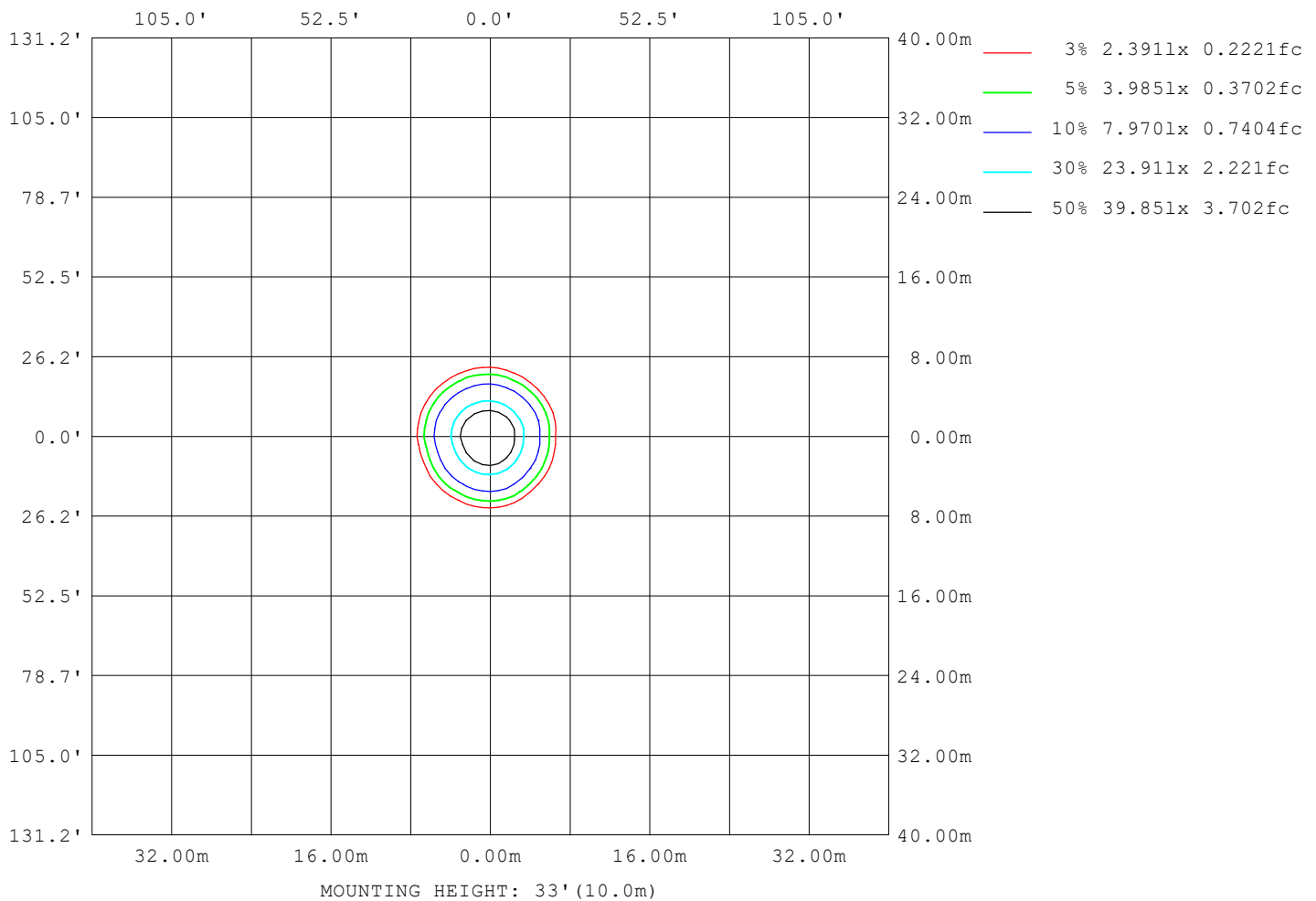


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 Test Date:09 November 2022

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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:

ISOLUX DIAGRAM

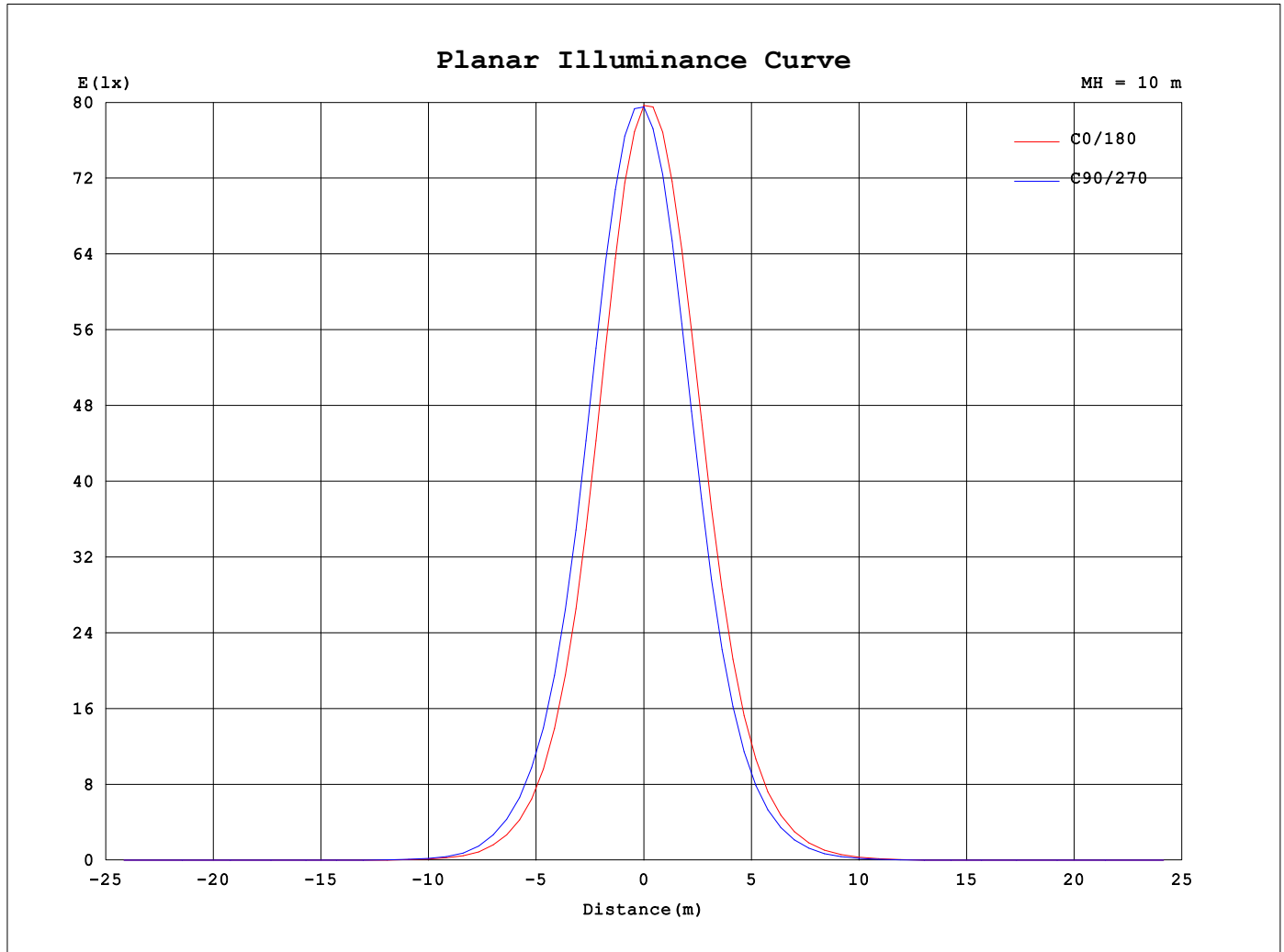
NAME: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cilinder	Shielding Angle:



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Test Date: 09 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

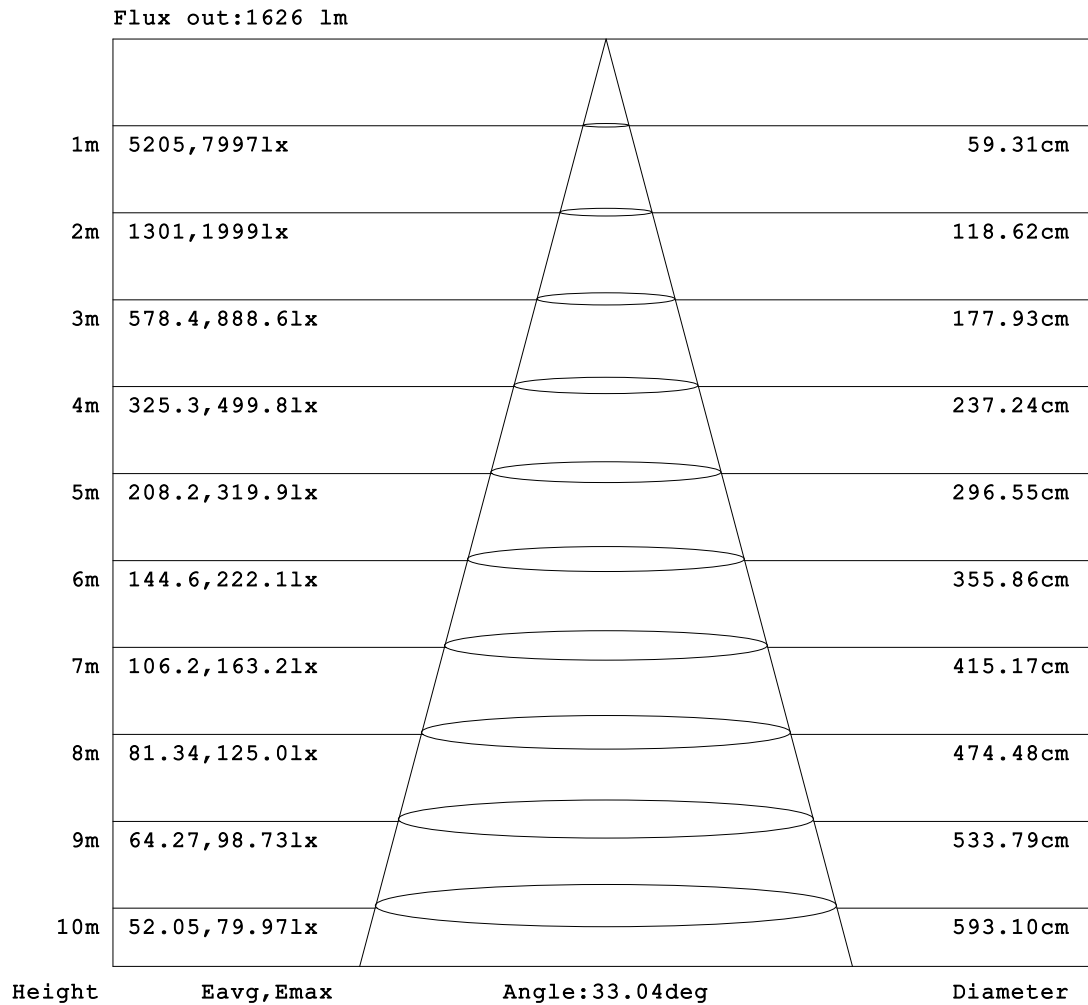


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 09 November 2022

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: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	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: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:09 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: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	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	0.00	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
-85	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
-75	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
-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
-65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.06	0.02	0.04	0.13	0.09	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.03	0.02	0.18	0.30	0.25	0.31	0.49	0.45	0.30
-55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.15	0.19	0.19	0.45	1.21	1.63	1.71	1.97	1.93	1.66
-50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.05	0.28	0.51	1.12	1.82	3.44	6.46	11.6	15.2	16.6	15.9
-45	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.06	0.11	0.51	1.70	2.94	8.24	19.2	33.2	46.9	57.2	61.6	59.2
-40	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.18	0.36	1.50	4.18	13.8	33.2	58.2	88.1	120	155	173	172
-35	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.36	1.17	3.14	14.6	37.8	74.2	130	207	305	403	466	486
-30	0.00	0.00	0.00	0.00	0.00	0.02	0.17	0.59	2.12	9.61	35.5	76.3	152	285	458	649	839	973	1021
-25	0.00	0.00	0.00	0.00	0.00	0.01	0.19	1.16	4.33	22.0	63.3	134	287	528	849	1196	1555	1812	1877
-20	0.00	0.00	0.00	0.00	0.00	0.00	0.29	1.61	8.79	39.5	95.9	215	464	848	1362	1987	2619	3095	3197
-15	0.00	0.00	0.00	0.00	0.00	0.00	0.49	2.32	16.0	57.0	132	309	648	1198	1966	2962	3969	4728	4917
-10	0.00	0.00	0.00	0.00	0.00	0.00	0.63	2.74	23.0	73.4	176	411	827	1507	2548	3903	5297	6305	6625
-5	0.00	0.00	0.00	0.00	0.00	0.00	0.70	2.92	28.6	85.8	214	493	989	1815	3037	4568	6162	7344	7734
0	0.00	0.00	0.00	0.00	0.00	0.00	0.71	2.88	32.2	92.7	239	550	1111	2054	3448	5160	6753	7776	7970
5	0.00	0.00	0.00	0.00	0.00	0.00	0.67	2.84	29.4	87.8	227	527	1057	1926	3209	4763	6217	7164	7324
10	0.00	0.00	0.00	0.00	0.00	0.00	0.58	2.54	24.3	77.0	196	458	914	1630	2653	3910	5086	5805	5932
15	0.00	0.00	0.00	0.00	0.00	0.00	0.42	1.97	17.2	60.6	148	352	704	1229	1963	2857	3648	4128	4239
20	0.00	0.00	0.00	0.00	0.00	0.00	0.20	1.02	9.30	42.9	106	240	485	845	1306	1830	2333	2636	2680
25	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.65	4.25	26.2	70.0	149	301	516	784	1089	1348	1524	1541
30	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.30	1.68	11.9	42.1	87.6	169	285	430	592	741	811	821
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.78	3.83	20.2	49.1	86.2	139	210	283	351	390	393
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.42	1.22	5.81	20.5	41.7	66.1	92.8	118	145	158	158
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.49	1.13	4.15	12.8	24.0	37.5	47.4	56.1	60.4	60.3
50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.42	1.09	1.95	4.15	7.74	12.0	15.5	17.3	17.5
55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.20	0.46	0.58	0.96	1.14	1.09	1.21	1.40
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	0.01	0.00	0.05	0.07	0.02	0.03	0.08
65	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
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
75	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
85	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

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

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Operators:

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γ Interval: 2.5DEG

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Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 93M20TL0540/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F30 x 145	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	0.00	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	
-75	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	
-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	
-65	0.07	0.11	0.03	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	
-60	0.42	0.44	0.22	0.14	0.20	0.10	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-55	1.72	1.67	1.36	1.16	0.91	0.29	0.05	0.07	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-50	13.5	10.8	7.54	3.67	2.28	1.39	0.76	0.33	0.14	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-45	53.9	46.2	35.9	23.8	12.0	4.35	1.87	1.04	0.28	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-40	157	130	94.0	66.1	41.6	20.7	6.87	2.02	0.74	0.13	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
-35	449	363	250	153	91.3	49.7	21.2	5.58	1.44	0.49	0.19	0.03	0.00	0.00	0.00	0.00	0.00	0.00	
-30	946	782	555	352	192	95.4	44.3	15.0	2.80	1.09	0.32	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
-25	1735	1407	1018	653	369	177	75.3	29.9	6.65	1.75	0.42	0.06	0.00	0.00	0.00	0.00	0.00	0.00	
-20	2925	2314	1626	1034	607	303	119	46.3	13.9	2.20	0.52	0.04	0.00	0.00	0.00	0.00	0.00	0.00	
-15	4465	3485	2412	1496	873	446	174	64.4	22.3	3.98	0.76	0.06	0.01	0.00	0.00	0.00	0.00	0.00	
-10	5974	4649	3182	1958	1110	573	243	86.1	30.4	6.02	1.12	0.15	0.02	0.00	0.00	0.00	0.00	0.00	
-5	6998	5475	3739	2289	1274	648	284	100	36.7	7.77	1.40	0.24	0.04	0.00	0.00	0.00	0.00	0.00	
0	7236	5675	3873	2361	1294	656	295	107	40.3	8.83	1.58	0.33	0.05	0.00	0.00	0.00	0.00	0.00	
5	6716	5400	3811	2342	1287	657	297	111	41.8	9.50	1.37	0.23	0.04	0.00	0.00	0.00	0.00	0.00	
10	5451	4354	3070	1955	1136	588	269	105	39.3	8.81	1.14	0.14	0.02	0.00	0.00	0.00	0.00	0.00	
15	3879	3136	2233	1437	854	456	210	85.3	32.0	6.36	0.98	0.05	0.01	0.00	0.00	0.00	0.00	0.00	
20	2476	2016	1454	970	587	307	141	64.1	23.4	3.21	0.78	0.01	0.00	0.00	0.00	0.00	0.00	0.00	
25	1426	1169	877	591	353	186	88.3	41.1	12.6	1.56	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
30	755	625	474	318	190	102	51.6	21.9	4.56	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
35	361	303	226	152	92.1	52.4	25.3	8.13	1.33	0.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
40	147	126	95.9	69.2	43.4	22.7	8.19	1.79	0.57	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45	57.7	50.1	38.7	26.4	13.5	4.87	1.50	0.46	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
50	16.2	13.1	9.00	4.74	2.17	1.09	0.53	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
55	1.28	1.20	1.23	0.95	0.42	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	
60	0.03	0.01	0.02	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	
65	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	
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	
75	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	
85	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	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:09 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: