

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	5309.9 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	42.8V x 42.7H
	At 50% of Imax	24.3V x 24.5H
	At 90% of Imax	9.9V x 10.2H

Beam Flux	Total	1198.2 lumens per klm.
	To 10% of Imax	928.0 lumens per klm.
	To 50% of Imax	569.5 lumens per klm.
	To 90% of Imax	120.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	119.8 %

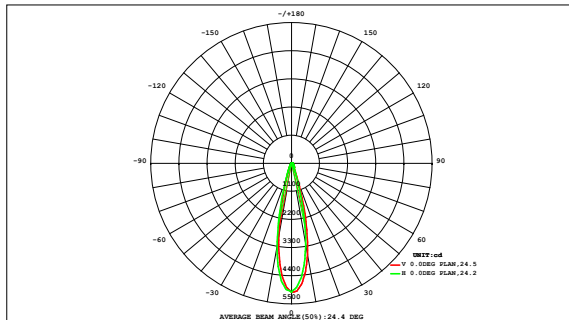
Luminaire Efficiency (Light Output Ratio)	119.3 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 November 2022

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: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93M21TLB1040/BL	Imax (cd)	5044
NOMINAL POWER (W)	10	AVAILABILITY (%)	91.7
RATED VOLTAGE (V)	48	Avai. FLUX (lm)	871.6
NOMINAL FLUX (lm)	950	LOR (%)	119.3
LAMPS INSIDE	1	TOTAL FLUX (lm)	1133
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	0.01	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	0.01	0.00
70	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.13	0.16	0.17	0.13	0.08	0.03	0.00	0.00	0.00	0.00	0.00	0.81	0.00
60	0.00	0.00	0.00	0.01	0.10	0.26	0.45	0.63	0.75	0.76	0.65	0.46	0.25	0.09	0.01	0.00	0.00	0.00	4.42	0.00
50	0.00	0.00	0.00	0.09	0.32	0.67	1.09	1.47	1.69	1.70	1.48	1.12	0.67	0.29	0.07	0.00	0.00	0.00	10.7	0.00
40	0.00	0.00	0.02	0.21	0.60	1.18	1.89	2.72	3.38	3.40	2.78	1.98	1.22	0.57	0.17	0.01	0.00	0.00	20.1	0.00
30	0.00	0.00	0.06	0.34	0.89	1.72	3.21	6.01	9.49	9.68	6.27	3.38	1.83	0.87	0.28	0.03	0.00	0.00	44.1	3.19
20	0.00	0.00	0.09	0.45	1.13	2.34	5.62	17.5	44.1	44.8	18.1	5.91	2.42	1.11	0.37	0.05	0.00	0.00	144	114
10	0.00	0.00	0.11	0.52	1.30	2.92	9.17	47.7	118	117	40.9	8.32	2.78	1.20	0.41	0.06	0.00	0.00	351	327
0	0.00	0.00	0.11	0.52	1.30	2.90	8.81	45.3	114	115	40.2	7.99	2.73	1.18	0.40	0.06	0.00	0.00	341	317
-10	0.00	0.00	0.08	0.44	1.14	2.33	5.44	16.7	43.2	43.9	17.4	5.62	2.31	1.07	0.36	0.05	0.00	0.00	140	109
-20	0.00	0.00	0.05	0.32	0.90	1.75	3.13	5.65	8.69	8.99	6.00	3.23	1.73	0.85	0.27	0.03	0.00	0.00	41.6	1.79
-30	0.00	0.00	0.02	0.19	0.60	1.19	1.88	2.63	3.25	3.32	2.74	1.94	1.20	0.58	0.17	0.01	0.00	0.00	19.7	0.00
-40	0.00	0.00	0.00	0.08	0.30	0.67	1.09	1.44	1.66	1.69	1.49	1.12	0.68	0.30	0.07	0.00	0.00	0.00	10.6	0.00
-50	0.00	0.00	0.00	0.01	0.09	0.25	0.45	0.65	0.77	0.77	0.66	0.47	0.26	0.09	0.01	0.00	0.00	0.00	4.51	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.03	0.08	0.13	0.17	0.18	0.14	0.09	0.03	0.00	0.00	0.00	0.00	0.00	0.85	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	0.01	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	0.55	3.19	8.69	18.2	42.4	149	350	352	139	41.7	18.2	8.21	2.60	0.31	0.00	0.00	1133	---
Φ a	0.00	0.00	0.00	0.00	0.00	0.00	3.62	116	322	323	105	1.62	0.00	0.00	0.00	0.00	0.00	0.00	---	872

one-half-peak spread: U:12.2,D:12.2 , L:13.6,R:11.1

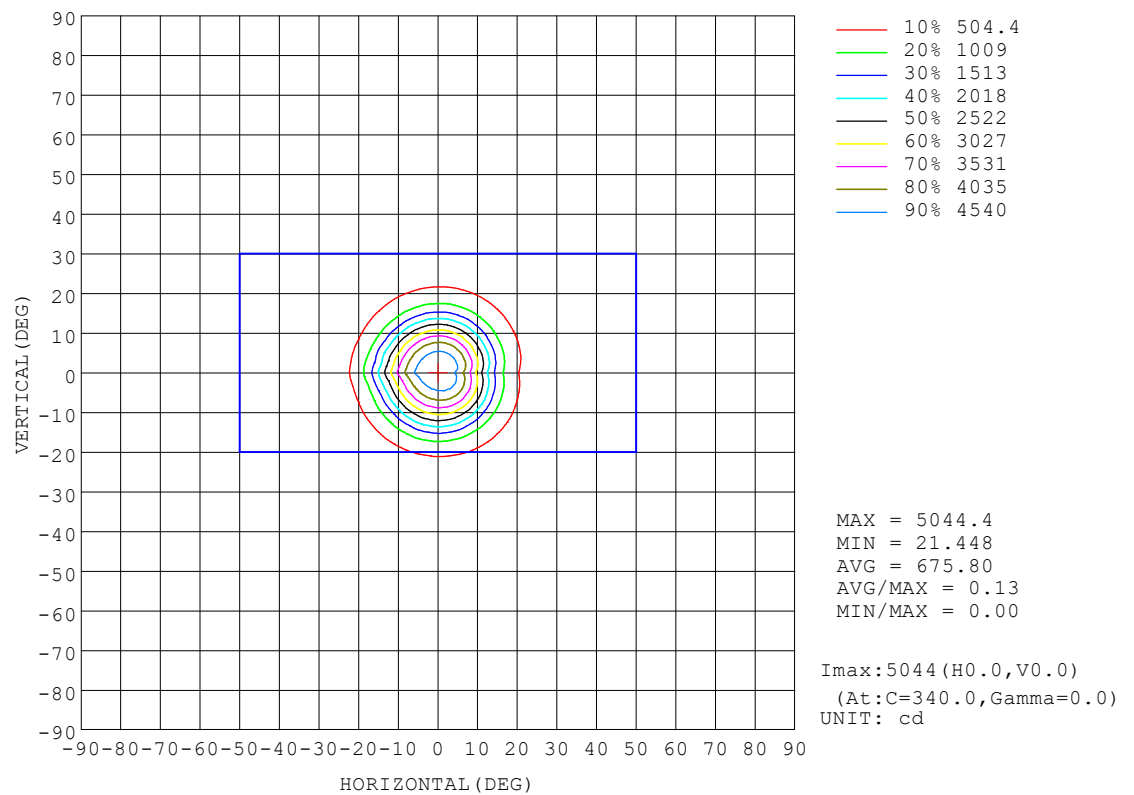
NEMA Beam Type: Type 3

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: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	Shielding Angle:

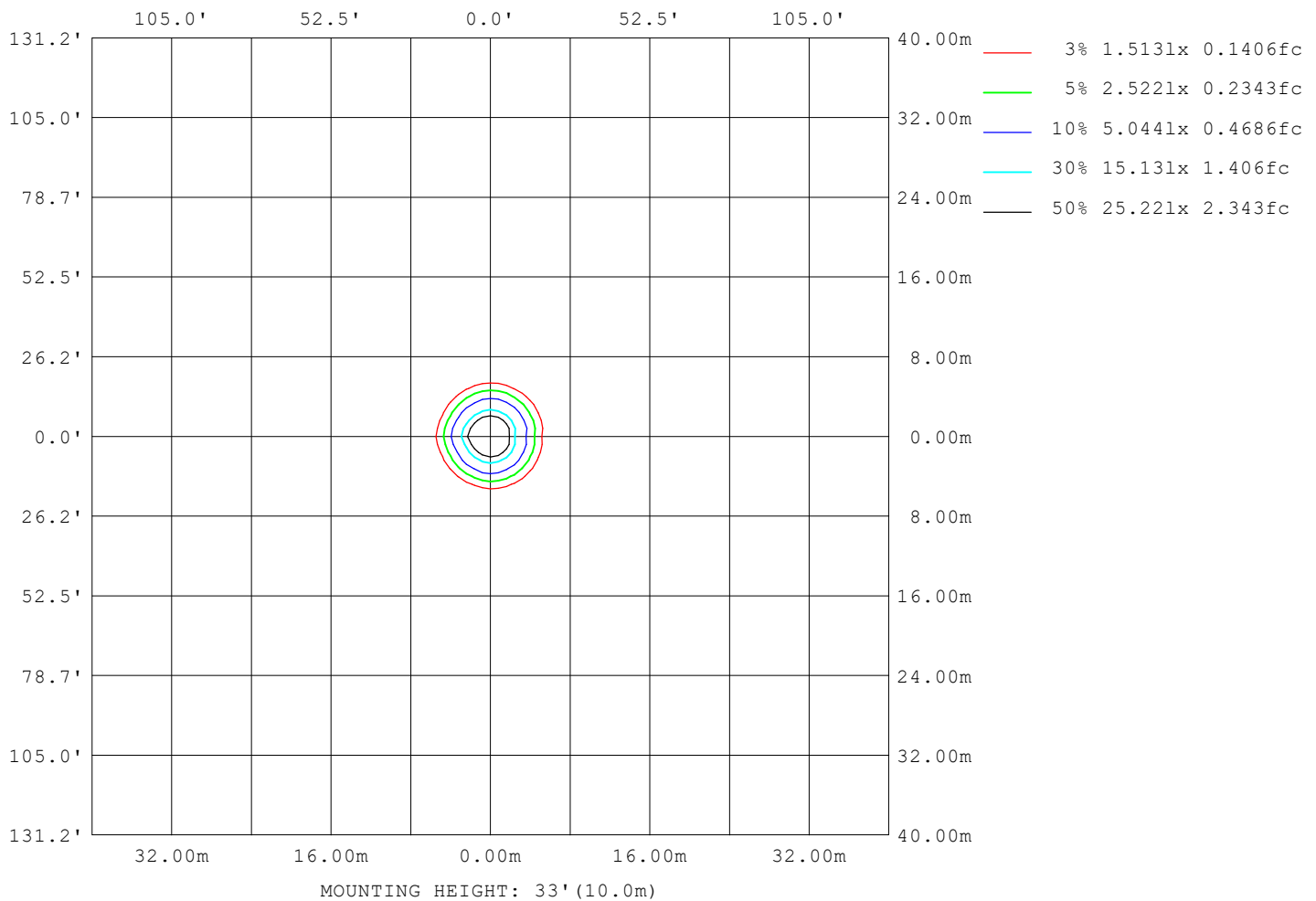


C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 11 November 2022

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

ISOLUX DIAGRAM

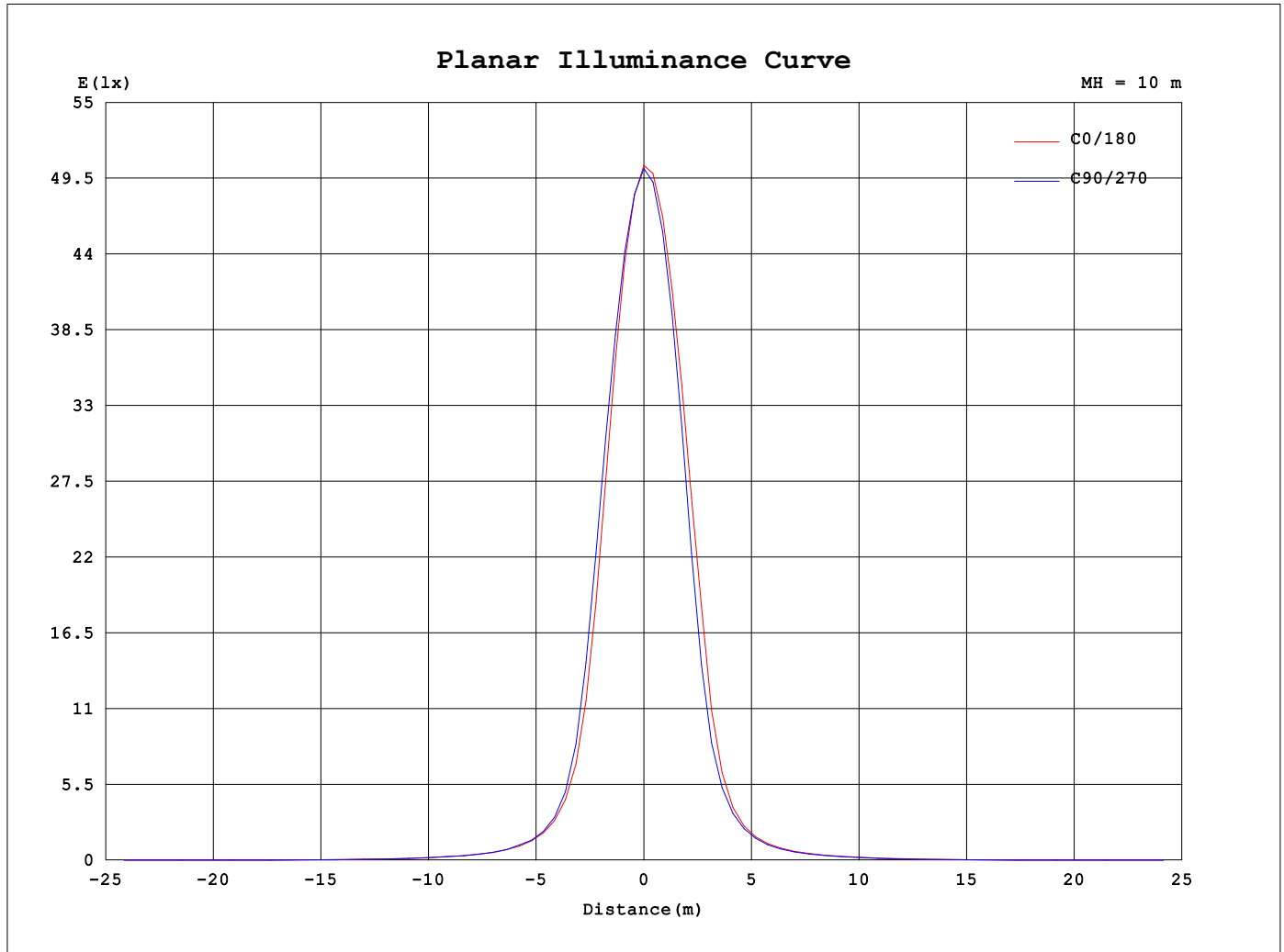
NAME: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	Shielding Angle:



C Range: 0 - 360DEG
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 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
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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

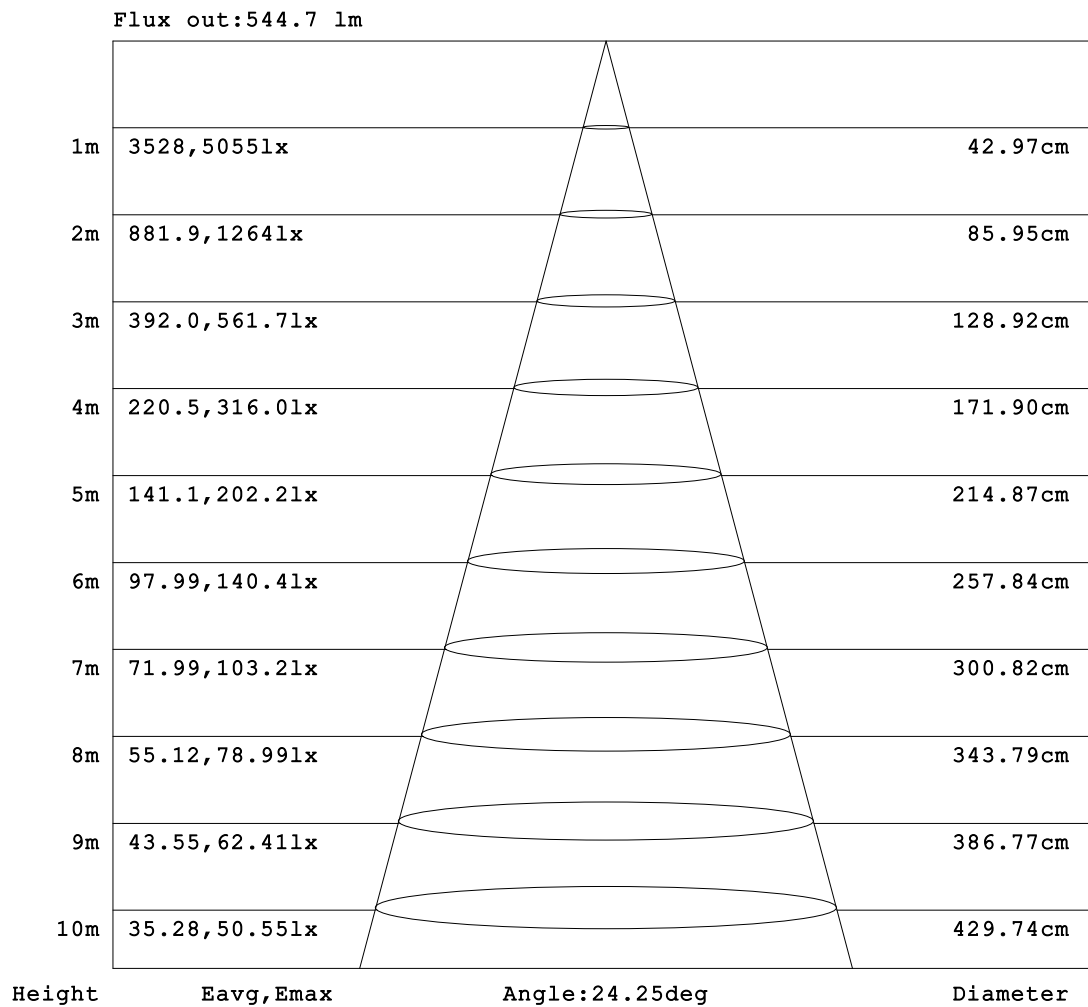


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 11 November 2022

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: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	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: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	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	0.02	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
-85	0.02	0.02	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
-80	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
-75	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01
-70	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.04	0.05	0.05	0.03
-65	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.03	0.09	0.31	1.25	2.08	3.21	4.10	4.73	5.22	5.49
-60	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.15	0.74	2.15	4.25	6.21	8.17	10.0	11.5	12.6	13.3	13.6
-55	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.26	1.58	3.99	6.93	9.92	12.7	15.6	18.5	21.7	24.0	25.4	26.0
-50	0.02	0.02	0.02	0.01	0.02	0.03	0.23	1.72	4.82	8.47	12.3	16.8	22.1	27.3	31.6	35.0	37.4	39.0	39.8
-45	0.02	0.02	0.02	0.01	0.02	0.03	1.05	4.39	8.71	13.3	19.4	26.9	33.4	39.2	44.4	48.9	52.4	54.7	55.9
-40	0.02	0.02	0.02	0.01	0.02	0.30	2.69	7.50	12.7	20.0	28.6	36.8	45.1	52.7	59.3	65.1	70.1	73.5	75.4
-35	0.02	0.02	0.02	0.01	0.02	0.79	5.04	10.6	17.9	27.6	37.1	47.5	58.0	67.6	76.9	87.4	96.8	103	106
-30	0.02	0.02	0.02	0.01	0.01	2.02	7.32	13.6	23.6	34.3	46.2	58.8	70.9	85.0	103	122	145	156	171
-25	0.02	0.02	0.02	0.01	0.17	3.17	9.48	17.5	29.0	41.1	55.2	69.2	86.0	109	146	183	226	262	281
-20	0.02	0.02	0.02	0.01	0.43	4.60	11.4	21.1	33.6	47.5	63.0	79.6	105	145	202	288	405	540	599
-15	0.02	0.02	0.02	0.01	0.70	5.89	13.1	24.4	37.6	52.7	69.3	90.2	126	190	290	502	882	1377	1591
-10	0.02	0.02	0.02	0.01	0.97	6.94	14.6	27.3	40.9	56.6	74.6	102	149	236	421	904	1836	2773	3211
-5	0.02	0.02	0.02	0.01	1.21	7.74	15.8	29.4	43.3	59.8	79.3	111	174	284	585	1447	2834	3968	4469
0	0.02	0.02	0.02	0.01	1.39	8.24	16.5	30.6	44.6	61.4	82.6	119	186	333	766	2044	3612	4722	5044
5	0.02	0.02	0.02	0.02	1.21	7.88	16.0	29.6	43.3	59.5	79.6	112	171	293	672	1596	2981	4151	4614
10	0.02	0.02	0.02	0.02	0.98	7.21	15.1	27.8	40.9	56.2	74.7	103	154	244	443	944	1904	2877	3297
15	0.02	0.02	0.02	0.02	0.71	6.25	13.8	25.1	37.9	52.0	68.5	91.0	128	191	305	532	909	1368	1573
20	0.02	0.02	0.02	0.02	0.44	5.02	12.2	21.8	34.1	46.8	61.4	79.2	105	150	213	306	440	581	636
25	0.02	0.02	0.02	0.02	0.18	3.56	10.3	18.3	29.8	40.9	53.5	67.9	86.0	112	149	196	247	292	309
30	0.02	0.02	0.02	0.02	0.03	2.25	8.12	14.7	24.3	34.7	45.3	57.5	70.7	85.4	105	129	151	170	174
35	0.02	0.02	0.02	0.02	0.03	0.80	5.72	11.6	18.5	28.0	37.3	47.1	57.5	67.8	78.6	89.3	99.9	108	110
40	0.02	0.02	0.02	0.02	0.02	0.27	3.16	8.30	13.7	20.3	29.1	36.8	44.6	53.0	61.0	67.8	72.8	75.6	76.3
45	0.02	0.02	0.02	0.02	0.02	0.02	1.10	4.91	9.50	14.2	19.9	27.1	33.0	38.7	44.9	50.1	53.6	55.5	55.8
50	0.02	0.02	0.02	0.02	0.02	0.02	0.17	1.89	5.31	9.29	13.1	17.0	22.1	27.1	31.0	34.3	37.2	38.9	39.3
55	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.14	1.75	4.47	7.40	10.2	13.0	15.7	18.0	20.9	23.2	24.7	25.2
60	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.09	0.78	2.32	4.30	6.29	8.15	9.62	10.9	11.9	12.5	12.7
65	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.05	0.26	1.24	2.01	2.97	3.84	4.56	4.96	5.08
70	0.02	0.02	0.02	0.02	0.03	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.05
75	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
80	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
85	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	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: 93M21TLB1040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F100	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: sphere	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	0.01	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	
-85	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	
-80	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	0.01	0.01	0.01	0.01	
-75	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
-70	0.05	0.06	0.06	0.05	0.05	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	
-65	5.35	4.96	4.38	3.51	2.36	1.46	0.40	0.10	0.03	0.03	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	
-60	13.4	12.8	11.9	10.5	8.75	6.69	4.59	2.37	0.71	0.06	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
-55	25.5	24.2	22.2	19.3	16.5	13.3	10.4	7.09	3.97	1.39	0.04	0.02	0.02	0.02	0.01	0.01	0.01	0.01	
-50	39.4	38.1	35.6	32.0	28.0	23.0	17.4	12.5	8.31	4.44	1.29	0.04	0.03	0.02	0.01	0.01	0.01	0.01	
-45	55.5	53.7	50.4	45.7	40.0	33.9	27.3	19.6	13.0	8.16	3.65	0.54	0.03	0.02	0.01	0.01	0.01	0.01	
-40	74.8	72.4	67.7	61.5	54.6	46.3	37.3	28.5	19.2	11.9	6.43	1.75	0.04	0.02	0.01	0.01	0.01	0.01	
-35	106	101	90.2	79.5	69.9	59.3	47.8	36.9	26.8	16.2	9.22	3.62	0.19	0.02	0.01	0.01	0.01	0.01	
-30	162	153	129	107	87.5	72.1	58.4	44.9	33.1	21.4	11.8	5.41	0.89	0.01	0.01	0.01	0.01	0.01	
-25	274	240	194	151	113	87.1	68.6	52.9	38.8	26.5	14.5	7.15	1.44	0.02	0.01	0.01	0.01	0.01	
-20	555	430	310	213	150	107	79.2	60.3	44.2	30.6	16.8	8.64	2.29	0.02	0.02	0.01	0.01	0.01	
-15	1401	908	528	306	197	128	89.7	66.7	48.8	33.8	19.7	9.77	2.87	0.03	0.02	0.02	0.01	0.01	
-10	2848	1867	899	429	237	148	99.9	72.1	52.4	36.0	21.4	10.5	3.24	0.04	0.02	0.02	0.01	0.01	
-5	4098	2802	1301	535	269	164	105	74.9	54.0	37.0	22.2	10.8	3.39	0.04	0.02	0.02	0.01	0.01	
0	4400	2883	1285	530	267	159	105	75.1	54.0	37.0	21.9	10.8	3.32	0.05	0.02	0.02	0.01	0.01	
5	4172	2816	1347	564	283	165	107	76.3	54.8	37.4	22.3	11.0	3.43	0.04	0.02	0.02	0.01	0.01	
10	2904	1873	916	452	253	155	103	74.8	53.9	36.7	21.7	10.7	3.31	0.04	0.02	0.02	0.01	0.01	
15	1401	940	561	326	203	134	94.1	70.6	50.7	34.5	20.0	10.1	2.95	0.04	0.02	0.02	0.01	0.01	
20	601	465	326	226	157	112	83.5	64.0	46.0	31.1	17.0	8.99	2.34	0.03	0.02	0.02	0.01	0.01	
25	297	254	204	155	119	91.9	72.7	55.4	39.6	26.9	14.8	7.45	1.43	0.03	0.02	0.02	0.01	0.01	
30	170	153	132	110	90.6	75.7	60.7	46.0	33.4	21.4	12.3	5.61	0.88	0.02	0.02	0.02	0.01	0.01	
35	109	102	91.7	81.5	71.2	60.3	48.8	36.9	26.5	16.0	9.55	3.70	0.18	0.02	0.02	0.02	0.01	0.01	
40	75.9	72.8	67.8	62.0	54.7	46.4	37.3	28.4	18.4	12.1	6.50	1.72	0.02	0.02	0.02	0.02	0.01	0.01	
45	55.6	53.7	50.2	45.8	40.3	33.9	26.9	18.7	13.1	8.13	3.53	0.50	0.02	0.02	0.02	0.02	0.01	0.01	
50	39.2	37.9	35.4	32.1	27.8	22.1	16.4	12.4	8.31	4.24	1.17	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
55	25.1	23.9	21.6	18.4	15.8	12.9	9.97	6.86	3.78	1.23	0.04	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
60	12.7	12.2	11.2	9.93	8.37	6.34	4.17	2.02	0.57	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	
65	5.08	4.81	4.17	3.31	2.24	1.29	0.25	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	
70	0.06	0.07	0.06	0.05	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	
75	0.02	0.01	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	
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	0.02	0.02	0.02	0.02	0.01	
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	0.01	
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	0.01	

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: