

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	2615.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	62.0V x 62.0H
	At 50% of Imax	25.3V x 25.3H
	At 90% of Imax	9.2V x 9.4H

Beam Flux	Total	983.8 lumens per klm.
	To 10% of Imax	724.6 lumens per klm.
	To 50% of Imax	281.3 lumens per klm.
	To 90% of Imax	58.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	98.4 %

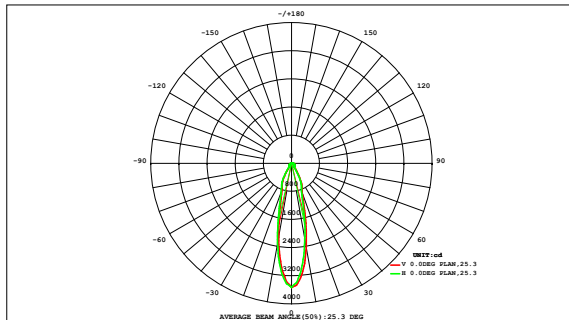
Luminaire Efficiency (Light Output Ratio)	98.1 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 18 October 2022

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: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93TLOM1540/WH	Imax (cd)	3530
NOMINAL POWER (W)	15	AVAILABILITY (%)	72.1
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	973.3
NOMINAL FLUX (lm)	1350	LOR (%)	98.1
LAMPS INSIDE	1	TOTAL FLUX (lm)	1325
TEST VOLTAGE (V)	230	θ @50% (H,V)	25,25DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.03	0.07	0.12	0.18	0.24	0.30	0.34	0.35	0.34	0.31	0.26	0.20	0.14	0.08	0.04	0.01	0.00		
90	0.00	0.03	0.07	0.12	0.18	0.24	0.30	0.34	0.35	0.34	0.31	0.26	0.20	0.14	0.08	0.04	0.01	0.00	3.03	0.00
80	0.01	0.07	0.20	0.38	0.59	0.81	1.01	1.15	1.21	1.20	1.11	0.95	0.75	0.53	0.32	0.16	0.05	0.01	10.5	0.00
70	0.02	0.12	0.34	0.67	1.03	1.35	1.61	1.79	1.88	1.87	1.77	1.57	1.30	0.97	0.60	0.30	0.10	0.01	17.3	0.00
60	0.02	0.17	0.50	0.92	1.31	1.68	2.01	2.24	2.36	2.35	2.21	1.97	1.64	1.27	0.86	0.44	0.14	0.02	22.1	0.00
50	0.03	0.22	0.62	1.07	1.53	1.98	2.37	2.66	2.81	2.79	2.61	2.32	1.93	1.48	1.02	0.57	0.19	0.02	26.2	0.00
40	0.03	0.26	0.70	1.18	1.71	2.24	2.77	4.18	6.06	5.87	3.75	2.68	2.17	1.66	1.14	0.66	0.23	0.02	37.3	1.78
30	0.04	0.30	0.76	1.28	1.86	2.52	6.21	14.7	19.7	19.3	13.5	5.02	2.41	1.80	1.23	0.72	0.26	0.03	91.5	65.7
20	0.04	0.32	0.79	1.34	1.96	3.68	14.0	25.8	41.3	39.2	23.8	12.1	2.98	1.90	1.30	0.76	0.29	0.03	172	153
10	0.04	0.33	0.81	1.38	2.02	5.25	18.3	41.1	83.8	79.4	35.8	16.4	4.02	1.96	1.33	0.78	0.30	0.03	293	276
0	0.04	0.33	0.81	1.38	2.03	5.35	18.3	40.3	81.8	77.7	35.4	16.3	4.02	1.97	1.34	0.78	0.30	0.03	288	271
-10	0.04	0.32	0.79	1.35	1.97	3.54	13.7	25.0	38.9	37.4	23.2	11.6	2.94	1.92	1.31	0.76	0.28	0.03	165	145
-20	0.04	0.30	0.76	1.28	1.86	2.51	5.82	13.9	18.8	18.3	12.4	4.66	2.42	1.81	1.24	0.72	0.26	0.03	87.2	60.4
-30	0.03	0.26	0.70	1.18	1.71	2.22	2.74	3.77	5.25	5.03	3.50	2.67	2.18	1.67	1.14	0.66	0.23	0.02	35.0	0.66
-40	0.03	0.22	0.61	1.06	1.52	1.97	2.35	2.64	2.79	2.78	2.62	2.32	1.93	1.48	1.02	0.56	0.19	0.02	26.1	0.00
-50	0.02	0.17	0.48	0.90	1.30	1.67	1.99	2.23	2.35	2.34	2.21	1.96	1.64	1.26	0.85	0.43	0.14	0.01	21.9	0.00
-60	0.02	0.12	0.33	0.64	1.00	1.33	1.59	1.77	1.86	1.85	1.74	1.55	1.27	0.93	0.57	0.28	0.09	0.01	16.9	0.00
-70	0.01	0.07	0.18	0.34	0.54	0.74	0.92	1.05	1.11	1.10	1.02	0.87	0.68	0.48	0.29	0.14	0.04	0.00	9.60	0.00
-80	0.00	0.02	0.05	0.10	0.15	0.20	0.24	0.26	0.27	0.27	0.24	0.20	0.16	0.11	0.06	0.03	0.01	0.00	2.38	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	0.47	3.63	9.51	16.6	24.3	39.3	96.1	185	313	299	167	85.4	34.7	23.3	15.7	8.78	3.10	0.34	1325	---
Φ a	0.00	0.00	0.00	0.00	0.00	2.68	64.4	157	286	272	139	52.4	0.00	0.00	0.00	0.00	0.00	0.00	---	973

one-half-peak spread: U:12.5,D:12.9 , L:13.5,R:12.0

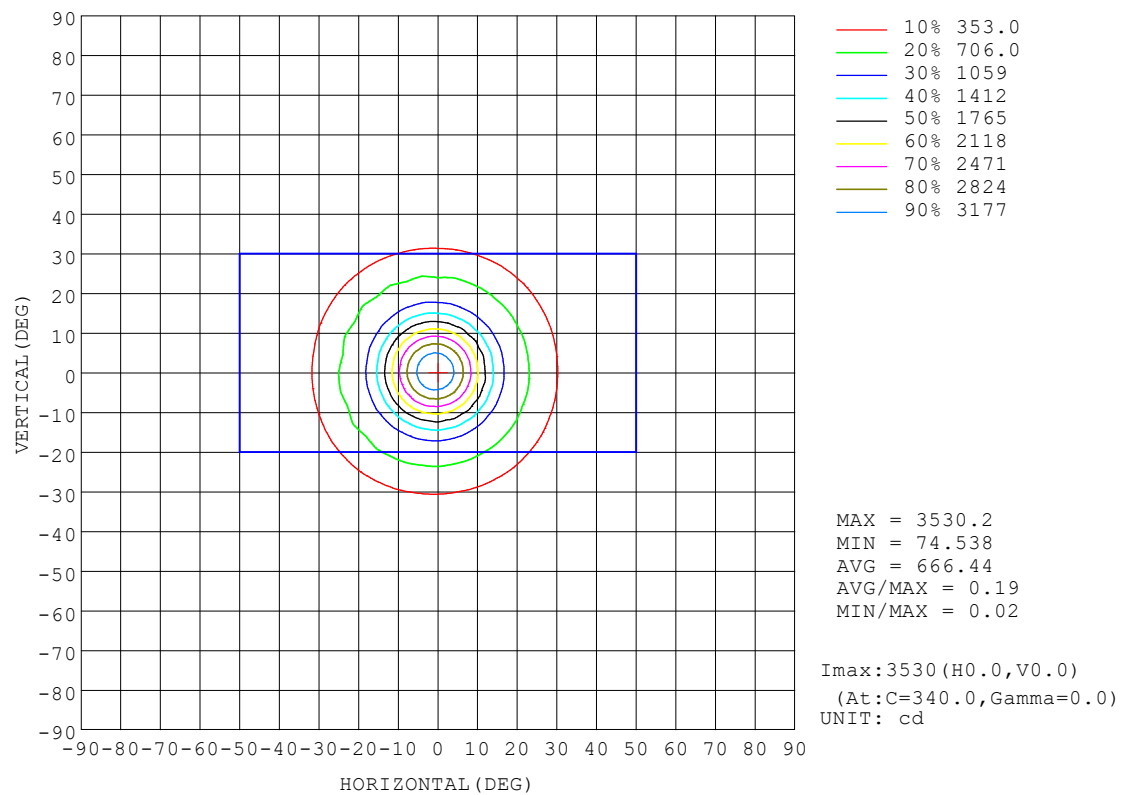
NEMA Beam Type: Type 4

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:18 October 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: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

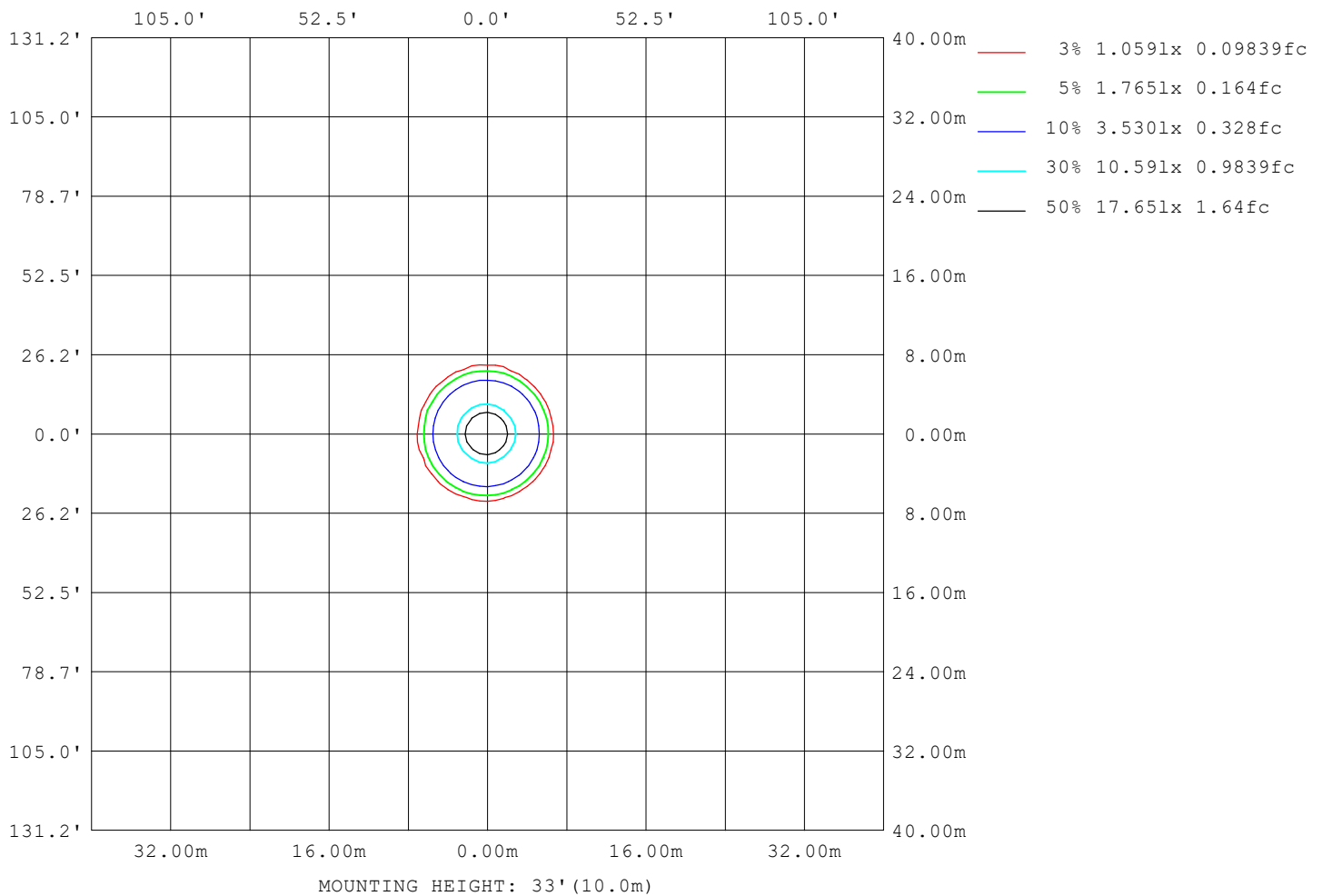


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 18 October 2022

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

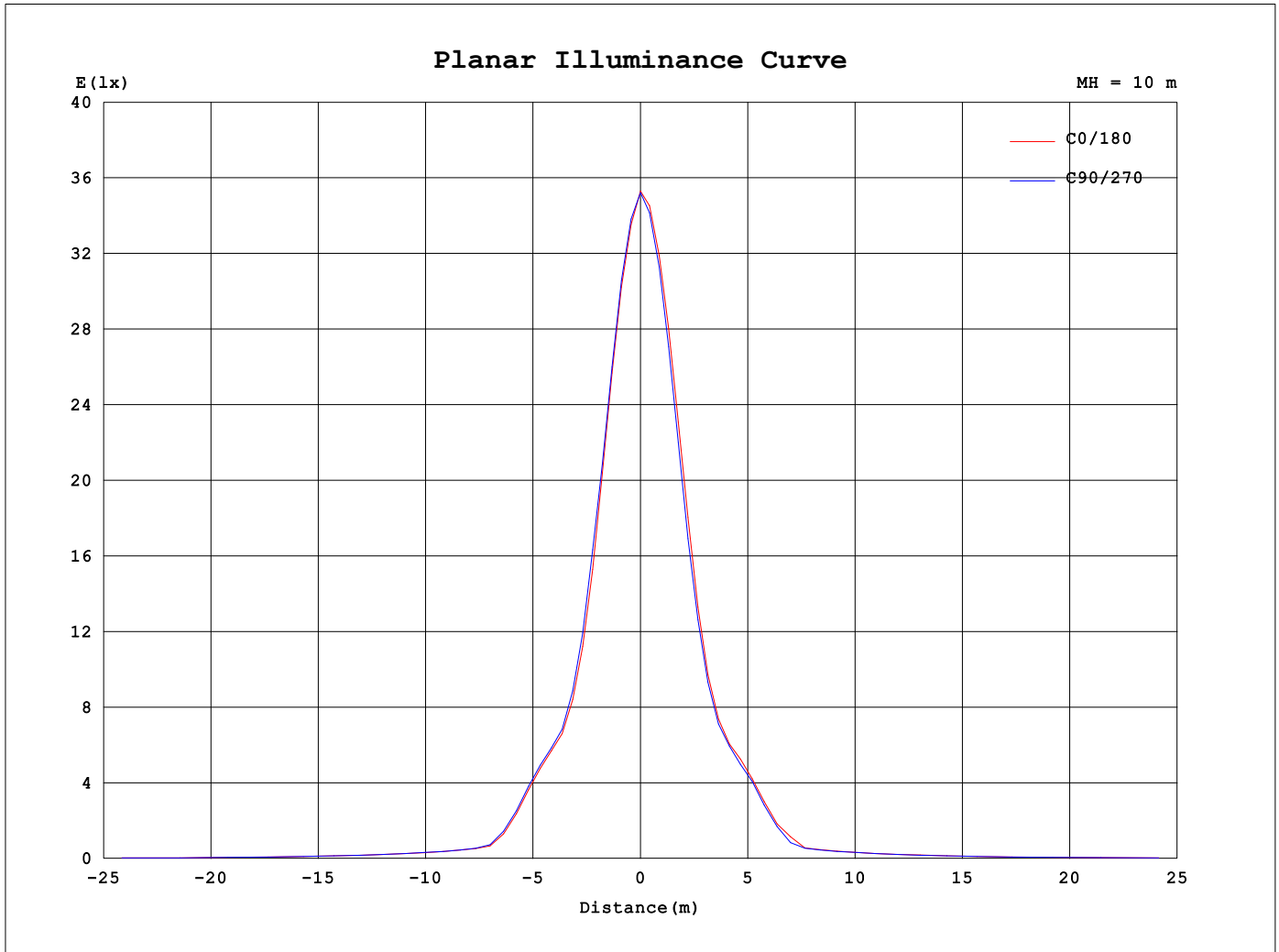
NAME: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 18 October 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

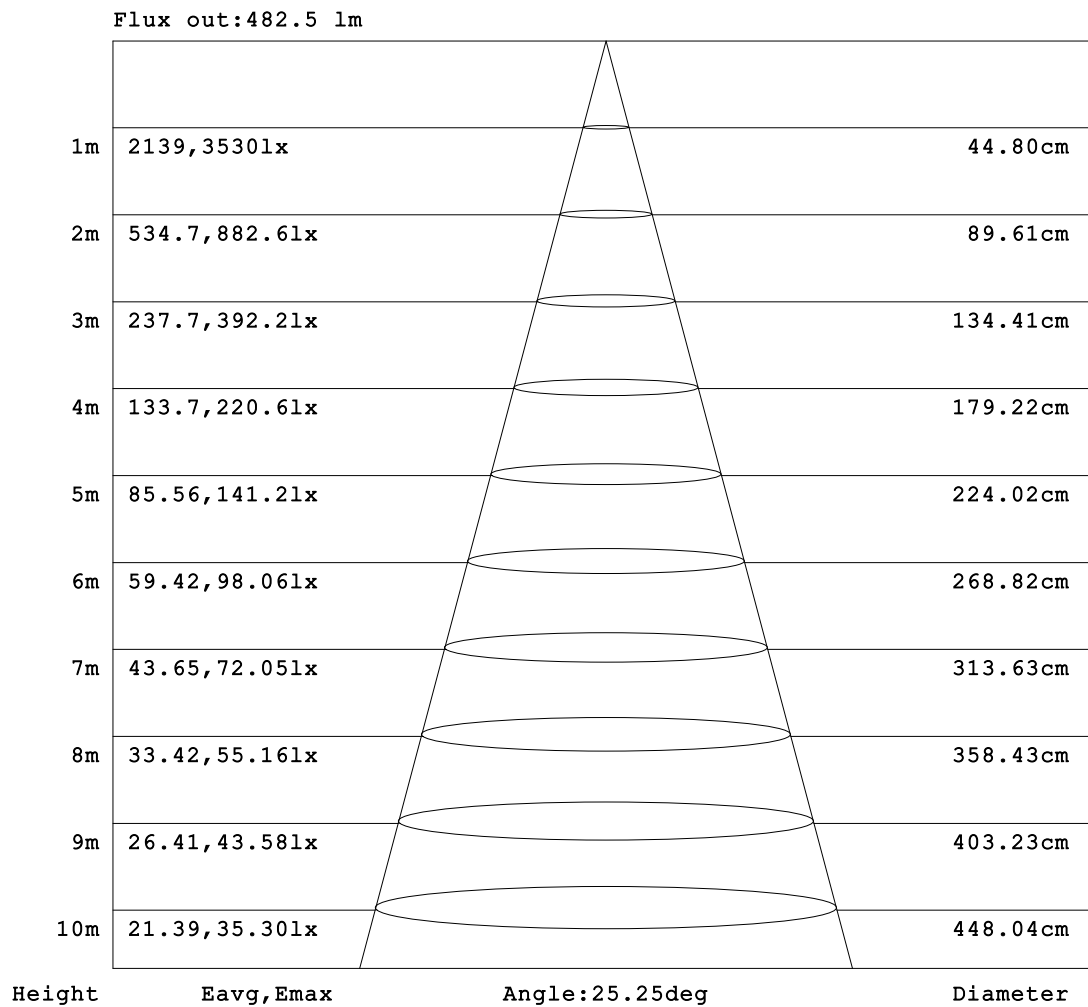


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 18 October 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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: 18 October 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: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	0.38	0.37	0.36	0.34	0.32	0.30	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
-85	0.38	1.23	2.03	2.76	3.42	4.04	4.60	5.26	5.86	6.46	7.00	7.37	7.67	7.98	8.22	8.28	8.26	8.27	8.21
-80	0.38	2.08	3.69	5.20	6.95	8.69	10.4	12.0	13.5	15.0	16.4	17.6	18.6	19.6	20.3	20.8	21.0	21.2	21.2
-75	0.38	2.91	5.36	8.16	10.9	13.8	16.6	19.5	22.1	24.8	27.4	29.5	31.4	33.2	34.7	35.7	36.3	36.7	36.7
-70	0.38	3.73	7.31	11.1	15.1	19.2	23.5	27.7	31.7	35.7	39.5	43.0	46.0	48.2	49.8	51.0	51.8	52.3	52.4
-65	0.38	4.53	9.21	14.2	19.4	24.9	30.7	36.4	41.9	47.3	51.0	54.0	56.1	58.0	59.3	60.3	61.0	61.4	61.5
-60	0.38	5.29	11.0	17.2	23.8	30.8	38.2	45.3	50.9	55.0	58.4	60.9	63.3	65.4	67.1	68.2	69.0	69.5	69.6
-55	0.38	6.17	13.0	20.4	28.4	36.9	45.5	52.2	56.9	60.7	64.1	67.3	69.9	72.2	74.3	75.9	76.9	77.6	77.8
-50	0.38	6.99	14.8	23.4	32.7	42.6	51.1	57.0	61.5	65.8	69.6	73.3	76.5	79.1	81.5	83.3	84.2	85.0	85.5
-45	0.38	7.76	16.5	26.3	37.1	48.0	55.3	60.8	65.9	70.5	75.1	79.1	82.9	85.5	87.5	89.6	91.1	91.9	92.4
-40	0.38	8.46	18.1	29.1	41.1	51.6	58.6	64.3	69.8	75.4	80.1	84.4	88.0	91.2	94.2	97.2	99.5	101	102
-35	0.38	9.10	19.6	31.7	44.7	54.6	61.3	67.5	73.7	79.6	84.8	88.7	93.4	98.0	103	110	125	132	133
-30	0.38	9.66	21.0	34.0	47.8	56.8	63.7	70.2	77.1	83.3	88.7	93.8	99.7	109	161	230	323	376	392
-25	0.38	10.1	22.2	36.1	50.0	58.8	65.9	72.9	79.9	86.4	92.2	99.2	109	173	334	490	599	648	664
-20	0.38	10.6	23.2	37.8	51.5	60.2	67.6	75.3	82.3	88.7	95.6	105	181	342	558	695	757	813	826
-15	0.38	10.9	24.0	39.2	52.7	61.3	69.0	77.0	84.4	90.9	99.1	112	260	515	693	818	1023	1255	1325
-10	0.38	11.1	24.5	40.2	53.6	62.1	70.0	78.2	85.9	92.7	102	153	362	621	775	1052	1552	2040	2187
-5	0.38	11.3	24.9	40.8	54.2	62.6	70.6	79.0	86.7	93.4	104	197	438	686	856	1332	2137	2852	3093
0	0.38	11.3	25.0	41.1	54.4	62.8	70.8	79.2	86.9	93.6	104	210	464	708	891	1476	2419	3226	3530
5	0.38	11.3	24.9	40.9	54.2	62.6	70.6	78.9	86.3	93.1	103	173	438	671	860	1375	2200	2920	3165
10	0.38	11.1	24.6	40.3	53.7	62.1	70.0	78.1	85.3	91.9	102	150	373	636	782	1084	1643	2157	2305
15	0.38	10.9	24.1	39.4	52.8	61.3	69.0	76.8	84.0	90.7	99.4	112	277	524	706	839	1082	1338	1402
20	0.38	10.6	23.3	38.1	51.7	60.2	67.7	75.2	82.3	89.0	96.3	105	160	365	577	695	781	850	859
25	0.38	10.2	22.4	36.4	50.2	58.9	65.9	73.0	80.1	86.5	92.4	99.6	110	212	358	521	620	675	670
30	0.38	9.76	21.2	34.4	48.1	57.0	63.9	70.5	77.2	83.1	88.5	94.7	101	110	169	271	357	424	435
35	0.38	9.21	19.9	32.1	45.2	54.9	61.5	67.7	73.8	79.6	84.9	89.8	94.3	99.0	105	112	145	186	154
40	0.38	8.58	18.4	29.6	41.8	52.1	59.0	64.5	70.0	75.5	80.5	84.9	88.5	92.1	95.9	98.2	100	102	101
45	0.38	7.89	16.8	26.9	38.0	48.8	55.7	61.1	66.0	70.8	75.4	79.6	82.7	86.3	88.7	90.5	92.0	92.6	92.2
50	0.38	7.13	15.1	24.0	33.8	43.8	51.8	57.3	61.8	66.1	70.0	73.6	77.0	79.8	82.0	83.7	85.0	85.5	85.1
55	0.38	6.32	13.3	21.1	29.5	38.3	46.6	52.7	57.3	61.1	64.4	67.6	70.3	72.8	74.7	76.4	77.6	78.1	78.0
60	0.38	5.45	11.4	17.9	25.0	32.3	39.7	46.5	51.8	55.7	58.9	61.3	63.7	65.8	67.4	68.6	69.5	69.9	69.9
65	0.38	4.67	9.57	14.9	20.6	26.4	32.3	38.3	43.9	48.8	52.0	54.8	56.9	58.7	60.0	60.9	61.6	61.9	61.9
70	0.38	3.86	7.67	11.8	16.2	20.7	25.1	29.6	34.1	38.2	42.0	45.2	48.2	50.1	51.5	52.6	53.4	53.8	53.8
75	0.38	3.03	5.72	8.82	11.9	15.1	18.1	21.4	24.5	27.3	29.9	32.4	34.7	36.6	38.1	39.3	40.2	40.5	40.4
80	0.38	2.17	3.97	5.83	7.91	9.84	11.7	13.7	15.6	17.2	18.7	20.3	21.6	22.6	23.4	24.1	24.6	24.7	24.6
85	0.38	1.29	2.21	3.15	4.09	4.95	5.78	6.70	7.57	8.29	8.93	9.55	10.1	10.5	10.8	11.0	11.2	11.1	11.0
90	0.38	0.42	0.45	0.47	0.50	0.52	0.54	0.54	0.54	0.53	0.52	0.50	0.48	0.46	0.44	0.41	0.38	0.37	0.35

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:18 October 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: 93TLOM1540/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F56 x190	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	
-85	8.00	7.70	7.47	7.15	6.68	6.15	5.64	5.05	4.35	3.60	2.90	2.14	1.86	1.57	1.31	1.00	0.66	0.28	
-80	20.9	20.3	19.8	19.0	18.0	16.8	15.5	14.1	12.5	10.9	9.30	7.57	5.88	4.14	2.43	1.72	1.03	0.28	
-75	36.2	35.4	34.4	33.1	31.3	29.2	27.0	24.7	21.9	19.1	16.4	13.6	10.7	7.82	5.21	2.53	1.39	0.28	
-70	52.0	51.1	49.9	48.2	45.9	43.2	40.0	36.3	32.4	28.3	24.3	20.1	15.9	11.8	7.95	4.36	1.75	0.28	
-65	61.2	60.5	59.5	58.2	56.5	54.3	51.9	48.1	43.5	38.1	32.6	26.9	21.3	15.9	10.9	6.13	2.10	0.28	
-60	69.2	68.5	67.5	66.1	64.2	61.9	59.3	56.2	52.5	47.5	41.2	34.0	26.9	20.1	13.8	7.83	2.44	0.28	
-55	77.3	76.5	75.3	73.6	71.3	68.6	65.8	62.4	58.5	54.3	48.9	41.2	32.6	24.4	16.7	9.64	3.24	0.28	
-50	84.7	83.8	82.7	80.7	78.2	75.3	71.9	67.9	63.9	59.4	54.3	47.5	38.2	28.6	19.6	11.3	4.01	0.28	
-45	91.6	90.5	89.0	86.7	84.4	81.6	77.7	73.4	68.6	63.9	58.5	52.5	43.6	32.7	22.4	12.9	4.72	0.28	
-40	101	98.8	96.2	92.9	89.9	86.6	83.0	78.5	73.4	67.7	62.1	55.9	48.0	36.5	25.0	14.4	5.37	0.28	
-35	126	118	107	101	96.3	91.7	87.3	83.1	77.6	71.5	65.3	58.8	51.7	40.2	27.4	15.9	5.96	0.28	
-30	356	288	192	120	105	97.2	91.9	86.9	81.5	74.9	68.0	61.4	54.0	43.4	29.6	17.2	6.47	0.28	
-25	631	560	434	272	131	105	96.4	90.3	84.3	77.8	70.6	63.6	56.0	45.9	31.6	18.3	6.92	0.28	
-20	795	733	648	486	269	120	102	93.3	86.7	80.4	72.8	65.3	57.5	47.8	33.2	19.2	7.29	0.28	
-15	1200	945	765	646	431	189	106	96.0	88.9	82.4	74.5	66.7	58.7	49.3	34.4	19.9	7.59	0.28	
-10	1935	1402	937	728	548	277	115	98.8	90.6	83.6	75.8	67.6	59.6	50.4	35.4	20.5	7.80	0.28	
-5	2699	1914	1151	779	618	345	122	100	91.4	84.1	76.5	68.2	60.1	51.1	35.9	20.8	7.93	0.28	
0	3058	2136	1245	797	641	366	124	101	91.6	84.2	76.8	68.3	60.3	51.3	36.1	20.9	7.98	0.28	
5	2763	1945	1178	784	619	346	121	99.5	90.8	83.7	76.4	68.1	60.1	51.1	36.0	20.8	7.94	0.28	
10	2029	1457	959	736	564	286	116	97.6	89.3	82.7	75.5	67.4	59.5	50.4	35.5	20.5	7.83	0.28	
15	1258	987	782	656	449	198	106	95.4	87.7	81.4	74.1	66.4	58.6	49.4	34.6	20.0	7.63	0.28	
20	824	753	664	518	291	124	101	92.7	85.8	79.8	72.5	65.1	57.4	47.9	33.3	19.3	7.35	0.28	
25	663	596	477	301	143	105	95.9	89.2	83.6	77.4	70.4	63.4	55.9	46.1	31.8	18.4	6.99	0.28	
30	408	329	226	131	106	97.7	91.5	85.7	80.6	74.5	68.0	61.3	54.0	43.7	29.9	17.3	6.56	0.28	
35	180	135	110	102	96.5	91.7	87.0	82.4	77.0	71.2	65.3	58.9	51.9	40.6	27.7	16.1	6.05	0.28	
40	101	99.2	96.4	93.4	89.7	86.1	82.7	78.2	73.0	67.6	62.1	56.1	48.6	37.1	25.3	14.6	5.47	0.28	
45	92.1	90.8	88.7	86.6	84.0	80.9	77.5	73.2	68.6	63.8	58.6	52.9	44.7	33.4	22.8	13.2	4.83	0.28	
50	85.0	84.1	82.3	80.6	78.4	75.2	71.6	68.0	64.0	59.5	54.7	48.5	39.4	29.4	20.0	11.6	4.14	0.28	
55	77.7	76.8	75.3	73.4	71.3	68.7	65.9	62.6	58.9	54.9	49.8	42.6	33.9	25.3	17.3	9.91	3.38	0.28	
60	69.7	69.0	67.8	66.4	64.6	62.2	59.6	56.8	53.4	48.9	42.8	35.5	28.2	21.1	14.3	8.11	2.58	0.28	
65	61.7	61.1	60.1	58.9	57.4	55.3	53.0	49.7	45.8	40.2	34.3	28.3	22.6	16.9	11.5	6.43	2.23	0.28	
70	53.5	52.9	51.7	50.3	48.5	46.1	42.6	38.8	34.8	30.5	26.0	21.4	17.1	12.8	8.53	4.67	1.86	0.28	
75	40.0	39.3	38.0	36.4	34.5	32.3	29.8	27.0	24.2	21.2	18.1	14.8	11.8	8.73	5.80	2.86	1.48	0.28	
80	24.3	23.9	23.0	22.0	20.9	19.6	18.0	16.2	14.5	12.7	10.8	8.74	6.91	5.01	3.02	1.95	1.08	0.28	
85	10.8	10.6	10.1	9.59	9.06	8.46	7.68	6.85	6.05	5.19	4.23	3.24	2.68	2.14	1.61	1.11	0.68	0.28	
90	0.32	0.30	0.29	0.28	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.28	0.28	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:18 October 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: