

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	522.0 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	5.0 degrees horizontal

Beam Spread	At 10% of Imax	100.8V x 99.7H
	At 50% of Imax	92.9V x 93.5H
	At 90% of Imax	64.0V x 65.2H

Beam Flux	Total	956.8 lumens per klm.
	To 10% of Imax	931.3 lumens per klm.
	To 50% of Imax	896.4 lumens per klm.
	To 90% of Imax	492.9 lumens per klm.

Upward LOR	0.0 %
Downward LOR	95.7 %

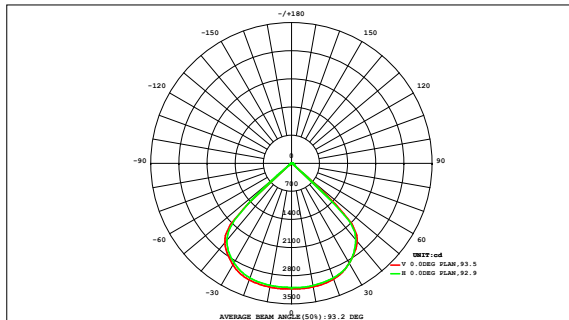
Luminaire Efficiency (Light Output Ratio)	95.6 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 25 August 2022

γ Range: 0 - 100DEG
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: 98EOS50/BL	TYPE: 98EOS50/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 150 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Sphere	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98EOS50/BL	Imax (cd)	3132
NOMINAL POWER(W)	50	AVAILABILITY (%)	93.2
RATED VOLTAGE (V)	230	Avai. FLUX(lm)	5592
NOMINAL FLUX(lm)	6000	LOR (%)	95.6
LAMPS INSIDE	1	TOTAL FLUX(lm)	5739
TEST VOLTAGE (V)	230	θ @50% (H,V)	93,93DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																	UNIT:lm			Φ t	Φ a
	0.01	0.03	0.07	0.10	0.14	0.19	0.21	0.21	0.22	0.22	0.22	0.21	0.18	0.13	0.10	0.06	0.03	0.01	2.32	0.00		
90	0.01	0.05	0.12	0.19	0.27	0.35	0.42	0.46	0.48	0.48	0.46	0.41	0.34	0.26	0.18	0.11	0.04	0.01	4.64	0.00		
80	0.01	0.07	0.16	0.28	0.42	0.58	0.74	0.87	0.93	0.93	0.85	0.72	0.57	0.41	0.27	0.16	0.06	0.01	8.05	0.00		
70	0.01	0.08	0.21	0.38	0.63	0.98	1.53	2.46	3.69	3.62	2.28	1.41	0.93	0.61	0.37	0.20	0.08	0.01	19.5	2.15		
60	0.02	0.10	0.26	0.52	1.00	3.26	19.4	41.6	53.3	53.2	40.8	18.1	2.79	0.92	0.49	0.25	0.09	0.01	236	223		
50	0.02	0.11	0.31	0.70	2.59	30.2	63.3	76.1	81.5	81.6	76.4	63.5	29.1	2.28	0.65	0.30	0.11	0.02	509	501		
40	0.02	0.13	0.36	0.95	14.5	57.3	74.6	84.5	89.4	89.5	84.6	75.0	58.1	13.9	0.86	0.34	0.12	0.02	644	638		
30	0.02	0.13	0.40	1.33	30.3	64.8	79.5	88.9	92.8	92.7	88.7	79.6	65.4	30.3	1.19	0.38	0.13	0.02	717	711		
-30	0.02	0.14	0.42	1.75	38.4	67.4	81.8	90.6	94.0	93.4	90.1	82.0	68.0	38.6	1.58	0.41	0.14	0.02	749	744		
	0.02	0.14	0.43	1.74	38.2	66.9	81.1	89.7	93.4	94.2	91.1	83.0	68.6	38.6	1.59	0.41	0.14	0.02	749	745		
	0.02	0.14	0.41	1.33	29.5	64.2	78.6	88.1	92.4	93.1	89.8	80.9	66.2	29.6	1.24	0.39	0.13	0.02	716	711		
	0.02	0.13	0.37	0.97	12.9	57.0	73.4	83.8	89.4	90.1	85.8	75.8	58.1	12.4	0.91	0.36	0.13	0.02	642	635		
	0.02	0.12	0.32	0.73	2.25	26.6	62.3	75.0	80.9	81.5	76.3	62.8	25.6	2.17	0.69	0.31	0.11	0.02	498	489		
-40	0.02	0.10	0.27	0.55	1.06	2.56	14.8	36.7	49.2	48.9	36.0	14.1	2.55	1.01	0.53	0.26	0.10	0.01	209	193		
-50	0.01	0.08	0.22	0.41	0.68	1.06	1.62	2.29	2.90	2.91	2.30	1.60	1.02	0.66	0.40	0.21	0.08	0.01	18.5	0.00		
-60	0.01	0.06	0.17	0.30	0.45	0.63	0.82	0.97	1.06	1.05	0.95	0.79	0.62	0.44	0.29	0.16	0.06	0.01	8.86	0.00		
-70	0.01	0.05	0.12	0.19	0.28	0.37	0.46	0.51	0.53	0.52	0.49	0.44	0.37	0.27	0.18	0.11	0.05	0.01	4.96	0.00		
-80	0.01	0.03	0.06	0.10	0.13	0.18	0.21	0.22	0.22	0.22	0.21	0.20	0.18	0.13	0.09	0.06	0.03	0.01	2.26	0.00		
-90	-90	-80	-70	-60	-50	-40	-30	-20	HORIZONTAL (DEG)					20	30	40	50	60	70	80	90	
Φ t	0.26	1.69	4.67	12.5	174	445	635	763	826	828	767	640	449	173	11.6	4.48	1.64	0.25	5737	---		
Φ a	0.00	0.00	0.00	0.00	159	434	625	753	817	819	758	631	438	159	0.00	0.00	0.00	0.00	---	5592		

one-half-peak spread: U:41.2,D:41.8 , L:41.8,R:41.8

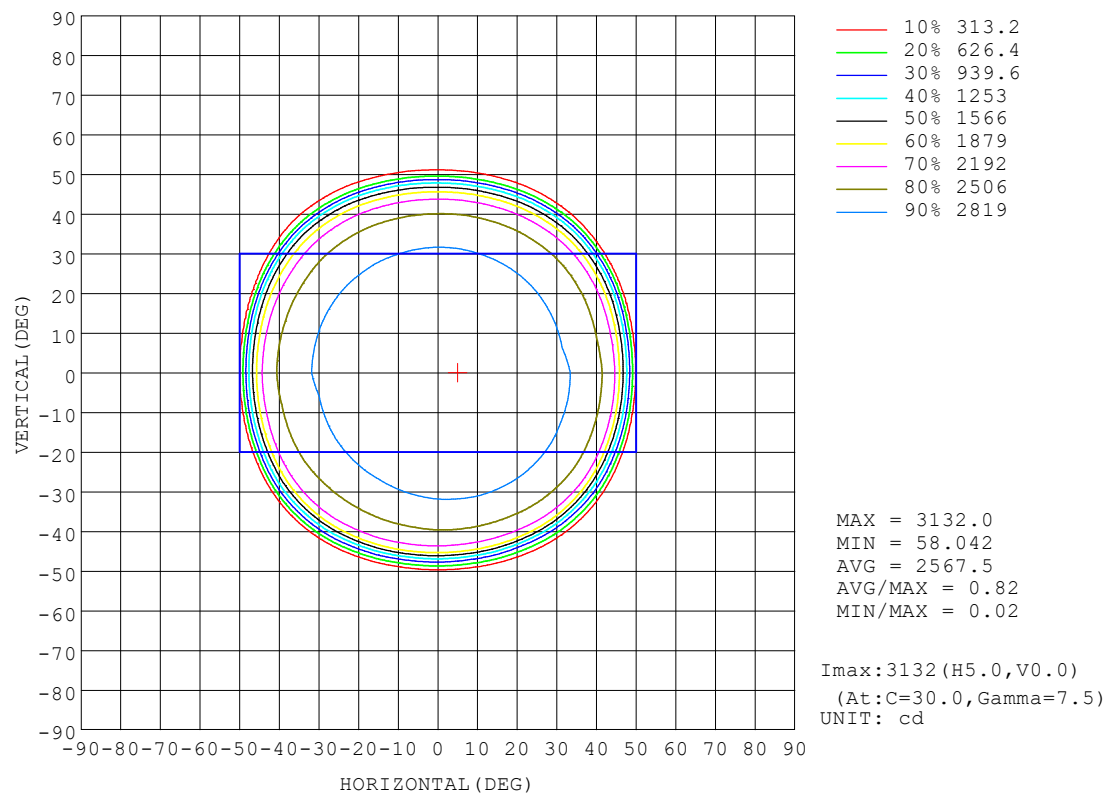
NEMA Beam Type: Type 5 x 6 (H x V)

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:25 August 2022

γ Range: 0 - 100DEG
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: 98EOS50/BL	TYPE: 98EOS50/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 150 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Sphere	Shielding Angle:

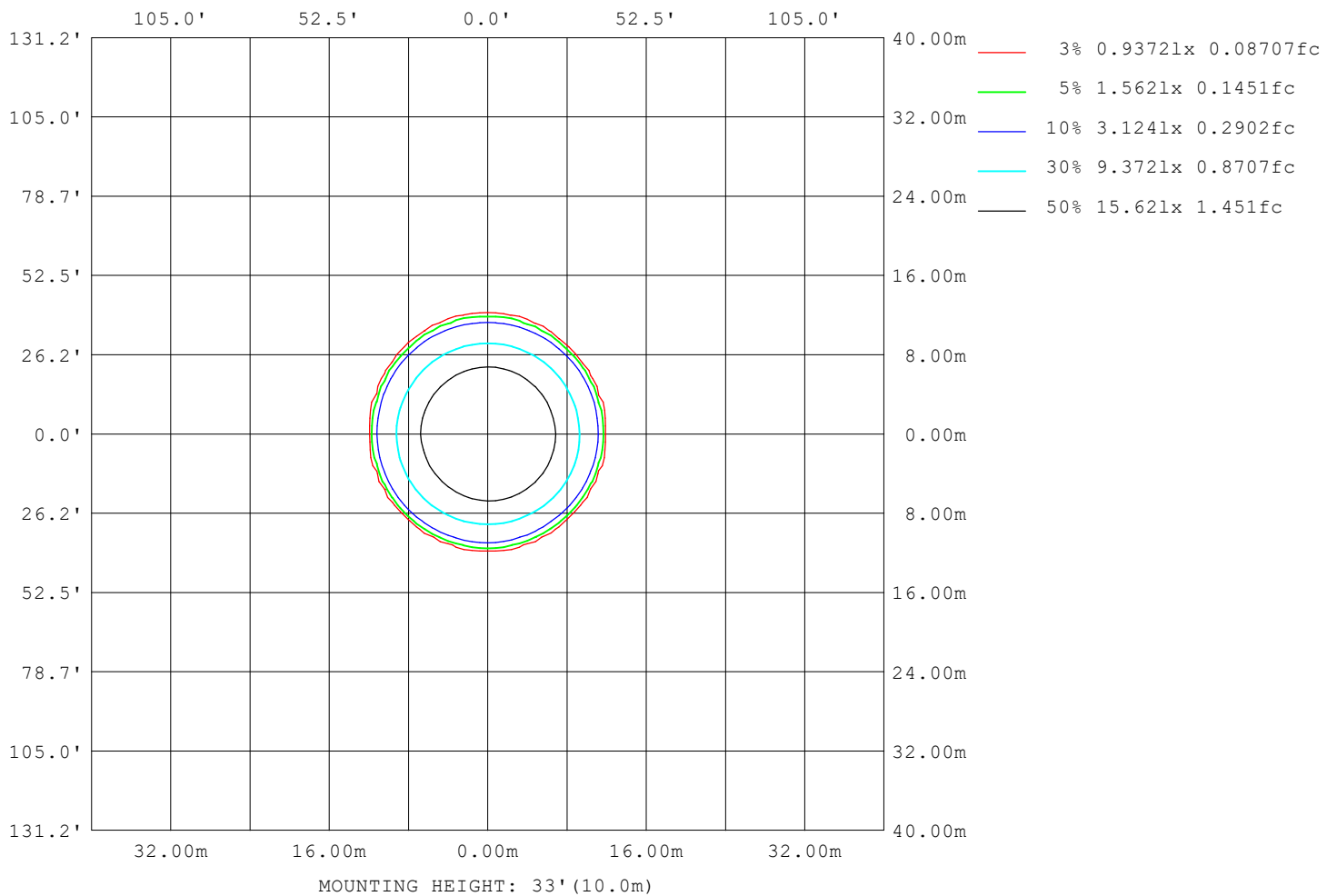


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Temperature:25.3°C
Operators:
Test Date:25 August 2022

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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

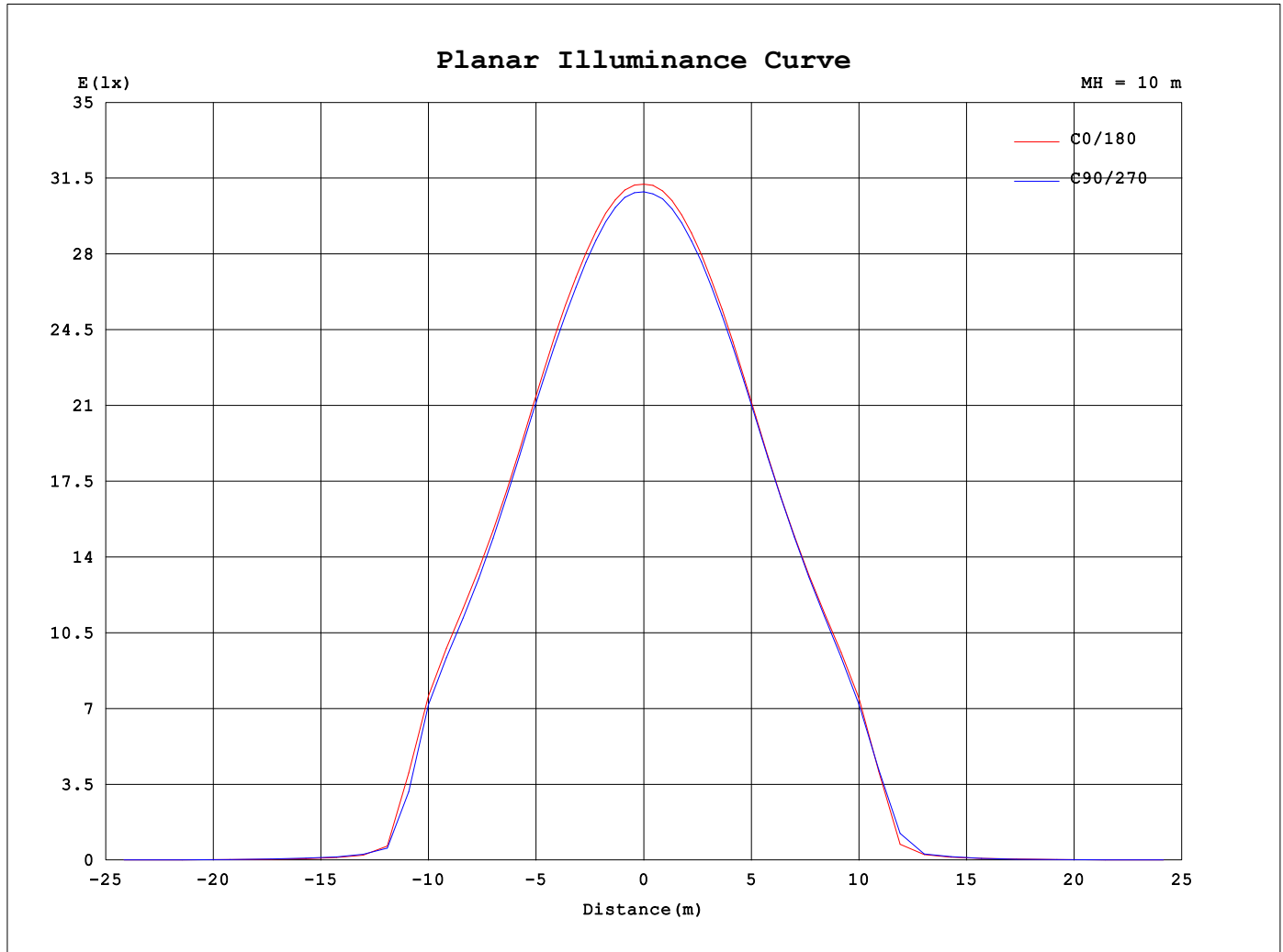
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SPEC.:	DIM.: 310 x 150 x 120	SERIAL No.: 0
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Humidity: 65.0%
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Remarks:

Planar Illuminance Curve

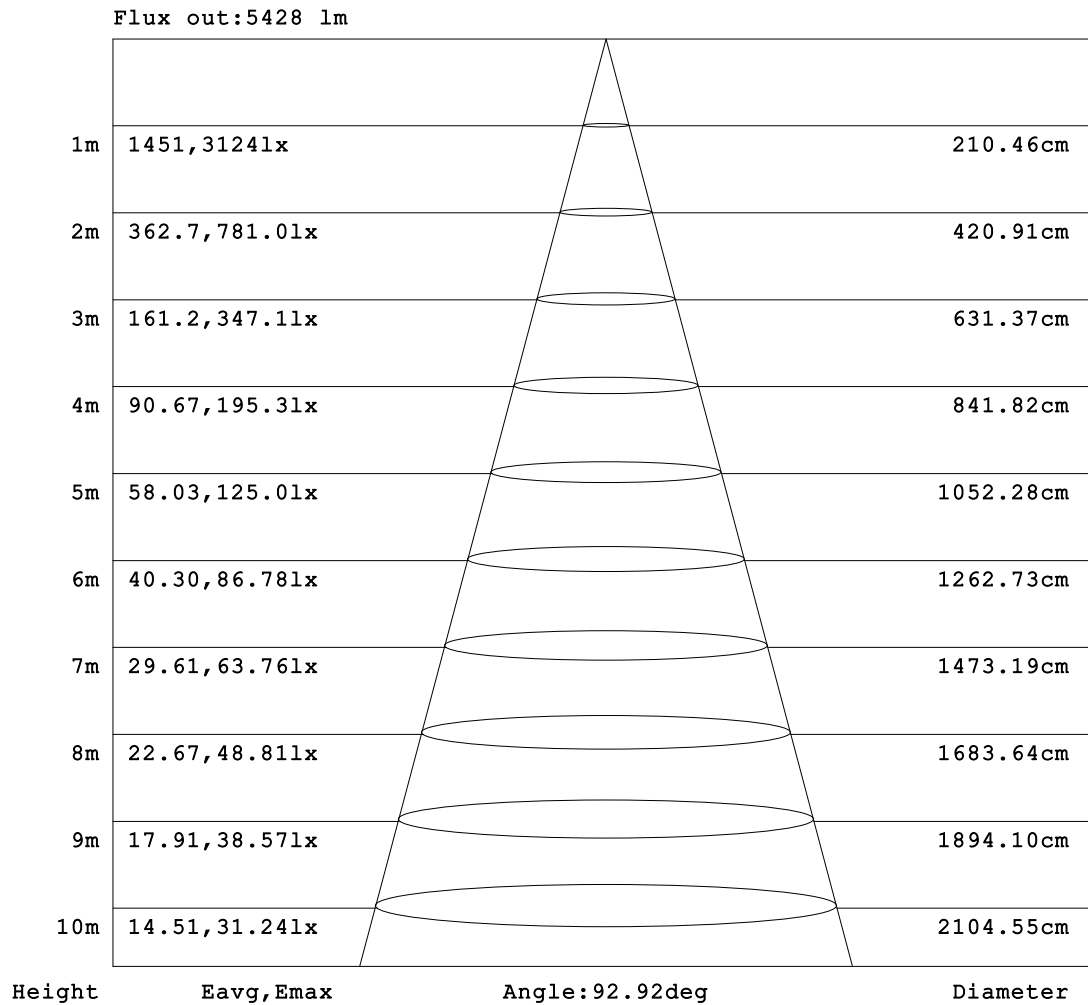


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Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 25 August 2022

γ Range: 0 - 100DEG
 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: 98EOS50/BL	TYPE: 98EOS50/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 150 x 120	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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:25 August 2022

γ Range: 0 - 100DEG
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: 98EOS50/BL	TYPE: 98EOS50/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 150 x 120	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Sphere	Shielding Angle:

Table--1

UNIT: cd

H(DEC) V(DEC)	-90	-85	-80	-75	-70	-65	-60	-55	-50	-45	-40	-35	-30	-25	-20	-15	-10	-5	0
-180	1.77	1.19	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	1.77	1.18	1.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	1.77	1.18	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	1.77	1.19	1.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-140	1.77	1.19	1.26	0.65	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
-130	1.77	1.20	1.18	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-120	1.77	1.22	1.09	1.21	1.48	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-110	1.77	1.43	1.11	1.03	1.10	1.24	1.44	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-100	1.77	1.67	1.41	1.12	1.08	1.03	0.92	0.94	0.96	0.98	1.00	1.10	1.20	1.29	1.36	1.41	1.46	1.48	1.50
-90	1.77	1.92	2.07	2.38	2.69	2.94	3.19	3.08	2.96	3.19	3.42	3.63	3.85	3.76	3.67	3.49	3.31	3.46	3.61
-80	1.77	2.56	3.30	4.42	5.82	6.84	7.74	8.09	8.33	9.13	9.95	10.8	11.5	11.7	11.9	11.8	11.5	11.6	11.6
-70	1.77	3.17	4.61	6.70	9.18	11.1	12.7	14.1	15.4	16.9	18.2	19.6	20.9	22.1	23.1	23.7	24.1	24.3	24.3
-60	1.77	3.75	5.93	9.08	12.4	15.0	17.5	20.0	22.7	25.5	28.5	32.0	35.6	39.1	42.6	45.8	48.2	49.5	49.9
-50	1.77	4.34	7.44	11.4	15.3	18.7	22.6	26.8	31.8	37.8	45.4	55.4	70.5	93.4	112	148	181	203	214
-40	1.77	4.86	8.74	13.5	18.0	22.7	28.1	35.3	44.9	59.9	95.2	165	788	1675	2171	2347	2415	2463	2489
-30	1.77	5.27	9.90	15.2	20.5	26.4	34.3	45.8	66.4	127	850	2116	2405	2535	2638	2728	2801	2851	2876
-20	1.77	5.57	10.7	16.3	22.2	29.6	40.4	58.2	109	898	2211	2507	2651	2778	2884	2955	2995	3019	3034
-10	1.77	5.74	11.2	16.9	23.2	31.4	44.6	69.8	223	1820	2452	2642	2788	2914	2995	3036	3059	3074	3088
0	1.77	5.79	11.3	17.0	23.3	31.6	45.5	73.0	277	2117	2544	2726	2874	2995	3069	3105	3121	3128	3124
10	1.77	5.80	11.1	16.7	22.7	30.8	43.7	68.9	235	1841	2469	2676	2823	2944	3024	3067	3083	3086	3083
20	1.77	5.67	10.7	15.9	21.4	28.4	38.9	56.1	112	1028	2192	2526	2688	2813	2911	2976	3015	3030	3034
30	1.77	5.42	9.90	14.7	19.4	25.2	32.9	44.1	64.9	143	1030	2084	2419	2582	2687	2763	2816	2851	2864
40	1.77	5.06	8.88	13.1	17.1	21.6	26.7	33.5	42.6	57.2	93.1	285	1072	1814	2183	2360	2441	2492	2510
50	1.77	4.59	7.75	11.2	14.6	17.8	21.3	25.2	29.8	35.4	42.6	52.4	72.6	92.2	122	247	377	453	468
60	1.77	4.04	6.44	9.27	12.0	14.3	16.4	18.7	21.2	23.7	26.4	29.3	32.4	35.3	38.1	40.5	42.2	43.1	43.2
70	1.77	3.46	5.21	7.22	9.34	10.7	11.9	13.2	14.5	15.8	17.1	18.2	19.3	20.1	20.7	21.2	21.5	21.7	21.7
80	1.77	2.82	3.90	5.08	6.39	7.04	7.50	7.98	8.43	9.30	10.1	10.6	11.0	11.0	11.0	10.9	10.8	10.9	11.0
90	1.77	2.15	2.54	2.94	3.34	3.48	3.62	3.56	3.51	3.89	4.27	4.40	4.54	4.28	4.02	3.94	3.87	4.00	4.13
100	1.77	1.85	1.67	1.40	1.34	1.20	0.95	0.95	0.94	0.90	0.86	0.93	0.99	1.06	1.12	1.16	1.19	1.21	1.22
110	1.77	1.56	1.20	1.01	1.04	1.12	1.25	0.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120	1.77	1.29	1.05	1.10	1.31	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
130	1.77	1.25	1.12	1.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
140	1.77	1.21	1.18	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150	1.77	1.19	1.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
160	1.77	1.18	1.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	1.77	1.18	1.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	1.77	1.19	1.43	0.00	0.00	0.00	0.00	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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γ Range: 0 - 100DEG
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]
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LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:	DIM.: 310 x 150 x 120	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	
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.17	1.47	
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.58	1.16	1.47	
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52	1.15	1.47	
-150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.42	1.14	1.47	
-140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67	1.28	1.14	1.47	
-130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.51	1.17	1.14	1.47	
-120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	1.53	1.22	1.05	1.15	1.47	
-110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	1.51	1.30	1.13	1.02	1.09	1.33	1.47	
-100	1.49	1.48	1.44	1.40	1.34	1.26	1.17	1.06	1.04	1.01	0.99	0.96	1.05	1.08	1.12	1.40	1.54	1.47	
-90	3.50	3.39	3.41	3.44	3.60	3.75	3.65	3.54	3.23	2.92	2.98	3.05	2.85	2.66	2.35	2.04	1.76	1.47	
-80	11.4	11.2	11.3	11.3	11.3	11.2	10.6	10.00	9.01	8.02	7.57	7.03	6.50	5.72	4.41	3.34	2.39	1.47	
-70	24.1	23.6	23.1	22.3	21.5	20.4	19.2	17.9	16.4	14.9	13.5	12.0	10.7	9.07	6.81	4.71	2.99	1.47	
-60	48.9	47.1	44.6	41.3	37.8	34.4	31.0	27.8	24.9	22.1	19.5	16.9	14.5	12.0	9.06	6.09	3.54	1.47	
-50	208	189	157	117	96.9	69.9	53.5	43.8	36.5	30.7	26.0	21.9	18.2	14.8	11.2	7.49	4.15	1.47	
-40	2477	2430	2354	2158	1606	708	172	89.6	57.0	42.9	33.8	27.1	21.9	17.4	13.1	8.71	4.66	1.47	
-30	2875	2852	2797	2716	2610	2460	2123	782	123	62.7	43.2	32.7	25.3	19.7	14.7	9.80	5.06	1.47	
-20	3041	3038	3016	2962	2866	2739	2584	2253	855	103	53.9	38.0	28.2	21.5	16.0	10.6	5.33	1.47	
-10	3097	3097	3088	3060	2994	2873	2725	2523	1844	201	64.7	41.7	30.1	22.7	16.8	11.1	5.48	1.47	
0	3132	3129	3114	3090	3030	2918	2772	2589	2149	247	67.6	42.7	30.6	23.1	17.1	11.2	5.48	1.47	
10	3077	3070	3052	3014	2944	2830	2692	2493	1847	208	62.3	40.7	29.6	22.4	16.6	11.0	5.43	1.47	
20	3028	3011	2974	2913	2822	2708	2561	2238	995	98.2	51.0	36.4	27.2	20.9	15.6	10.4	5.25	1.47	
30	2854	2822	2773	2702	2603	2452	2120	966	125	58.0	40.8	31.2	24.2	18.9	14.2	9.51	4.95	1.47	
40	2498	2448	2368	2184	1774	981	237	82.3	51.9	39.8	31.9	25.6	20.8	16.6	12.5	8.35	4.54	1.47	
50	440	359	232	112	82.3	61.1	48.2	40.1	33.8	28.7	24.3	20.6	17.2	14.0	10.6	7.08	4.04	1.47	
60	42.7	41.5	39.5	37.0	34.2	31.4	28.4	25.6	23.0	20.6	18.2	15.9	13.7	11.4	8.57	5.64	3.45	1.47	
70	21.6	21.4	21.1	20.5	19.8	18.9	17.8	16.6	15.4	14.1	12.9	11.6	10.3	8.72	6.43	4.42	2.92	1.47	
80	10.9	10.8	11.0	11.1	11.0	10.8	10.2	9.56	8.84	8.08	7.79	7.44	6.66	5.73	4.36	3.21	2.35	1.47	
90	3.95	3.78	3.99	4.21	4.32	4.44	4.11	3.78	3.49	3.21	3.32	3.43	3.15	2.86	2.45	2.04	1.75	1.47	
100	1.21	1.20	1.17	1.14	1.09	1.02	0.96	0.90	0.92	0.93	0.93	0.93	1.08	1.15	1.20	1.44	1.55	1.47	
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	1.31	1.16	1.06	1.03	1.14	1.35	1.47	
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	1.36	1.14	1.08	1.18	1.47	
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	1.15	1.16	1.47	
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61	1.23	1.16	1.47	
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.36	1.15	1.47	
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47	1.16	1.47	
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.56	1.16	1.47	
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.61	1.17	1.47	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:25 August 2022

γ Range: 0 - 100DEG
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: