

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	488.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	-17.5 degrees horizontal

Beam Spread	At 10% of Imax	106.0V x 105.9H
	At 50% of Imax	97.3V x 97.6H
	At 90% of Imax	83.4V x 86.3H

Beam Flux	Total	1009.6 lumens per klm.
	To 10% of Imax	988.9 lumens per klm.
	To 50% of Imax	941.4 lumens per klm.
	To 90% of Imax	742.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	101.0 %

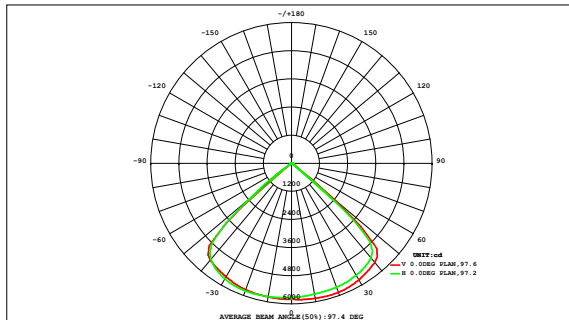
Luminaire Efficiency (Light Output Ratio)	100.9 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 25 August 2022

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: 98EOS100/BL	TYPE: 98EOS100/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98EOS100/BL	Imax (cd)	5864
NOMINAL POWER (W)	100	AVAILABILITY (%)	98.8
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	11855
NOMINAL FLUX (lm)	12000	LOR (%)	100.9
LAMPS INSIDE	1	TOTAL FLUX (lm)	12111
TEST VOLTAGE (V)	230	θ @50% (H,V)	98,97DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.02	0.08	0.16	0.25	0.33	0.44	0.51	0.53	0.52	0.52	0.54	0.52	0.45	0.33	0.24	0.16	0.08	0.02	5.70	0.00
90	0.02	0.08	0.16	0.25	0.33	0.44	0.51	0.53	0.52	0.52	0.54	0.52	0.45	0.33	0.24	0.16	0.08	0.02	5.70	0.00
80	0.02	0.13	0.29	0.46	0.65	0.85	1.02	1.13	1.22	1.23	1.16	1.04	0.87	0.65	0.46	0.29	0.12	0.02	11.6	0.00
70	0.03	0.17	0.40	0.67	0.98	1.32	1.67	1.98	2.19	2.21	2.02	1.71	1.35	0.99	0.66	0.39	0.17	0.03	18.9	0.00
60	0.03	0.21	0.49	0.87	1.37	2.08	3.66	10.4	16.7	16.7	10.4	3.65	2.09	1.38	0.86	0.48	0.20	0.03	71.6	38.8
50	0.04	0.24	0.58	1.10	2.24	14.8	62.2	110	131	131	108	60.5	14.6	2.21	1.09	0.58	0.24	0.04	641	621
40	0.04	0.27	0.67	1.43	12.5	85.1	142	161	168	168	159	139	82.1	12.8	1.38	0.66	0.26	0.04	1134	1122
30	0.05	0.29	0.76	2.43	48.6	130	155	169	175	174	166	151	126	47.2	2.41	0.74	0.29	0.05	1347	1336
20	0.05	0.31	0.83	5.50	82.2	138	159	171	176	174	167	153	133	79.4	5.83	0.81	0.31	0.05	1447	1441
10	0.05	0.32	0.87	8.48	97.2	140	160	172	176	173	167	154	135	92.9	9.53	0.86	0.33	0.05	1488	1481
0	0.05	0.32	0.86	7.96	97.0	138	157	168	172	173	168	156	137	94.2	8.89	0.87	0.33	0.05	1480	1472
-10	0.05	0.31	0.82	4.22	80.0	135	154	166	171	171	166	153	135	79.3	4.57	0.83	0.32	0.05	1421	1412
-20	0.05	0.29	0.75	1.98	40.9	127	150	163	169	169	163	150	127	42.9	2.04	0.76	0.30	0.05	1307	1297
-30	0.04	0.27	0.67	1.37	7.34	74.7	138	156	164	164	157	139	76.2	9.58	1.37	0.68	0.27	0.05	1091	1077
-40	0.04	0.24	0.58	1.08	1.93	8.05	48.0	98.1	123	123	98.4	50.7	10.2	1.98	1.09	0.59	0.24	0.04	567	545
-50	0.03	0.21	0.49	0.86	1.34	1.97	2.96	5.39	9.15	9.27	6.04	3.11	1.94	1.32	0.86	0.49	0.21	0.03	45.7	10.7
-60	0.03	0.17	0.40	0.66	0.97	1.32	1.65	1.92	2.07	2.05	1.87	1.60	1.29	0.96	0.66	0.40	0.17	0.03	18.2	0.00
-70	0.02	0.12	0.28	0.45	0.65	0.86	1.02	1.12	1.18	1.17	1.10	1.00	0.84	0.64	0.46	0.29	0.12	0.02	11.3	0.00
-80	0.02	0.07	0.15	0.23	0.32	0.42	0.49	0.51	0.50	0.50	0.51	0.49	0.41	0.31	0.23	0.15	0.07	0.02	5.40	0.00
-90	0.02	0.07	0.15	0.23	0.32	0.42	0.49	0.51	0.50	0.50	0.51	0.49	0.41	0.31	0.23	0.15	0.07	0.02	5.40	0.00
HORIZONTAL (DEG)																				
Φ t	0.68	4.01	10.1	40.0	476	1000	1337	1557	1658	1653	1542	1320	985	469	42.6	10.1	4.04	0.68	12111	---
Φ a	0.00	0.00	0.00	14.9	455	982	1320	1541	1642	1637	1526	1303	967	448	19.3	0.00	0.00	0.00	---	11855

one-half-peak spread: U:48.3,D:29.1 , L:31.5,R:46.1

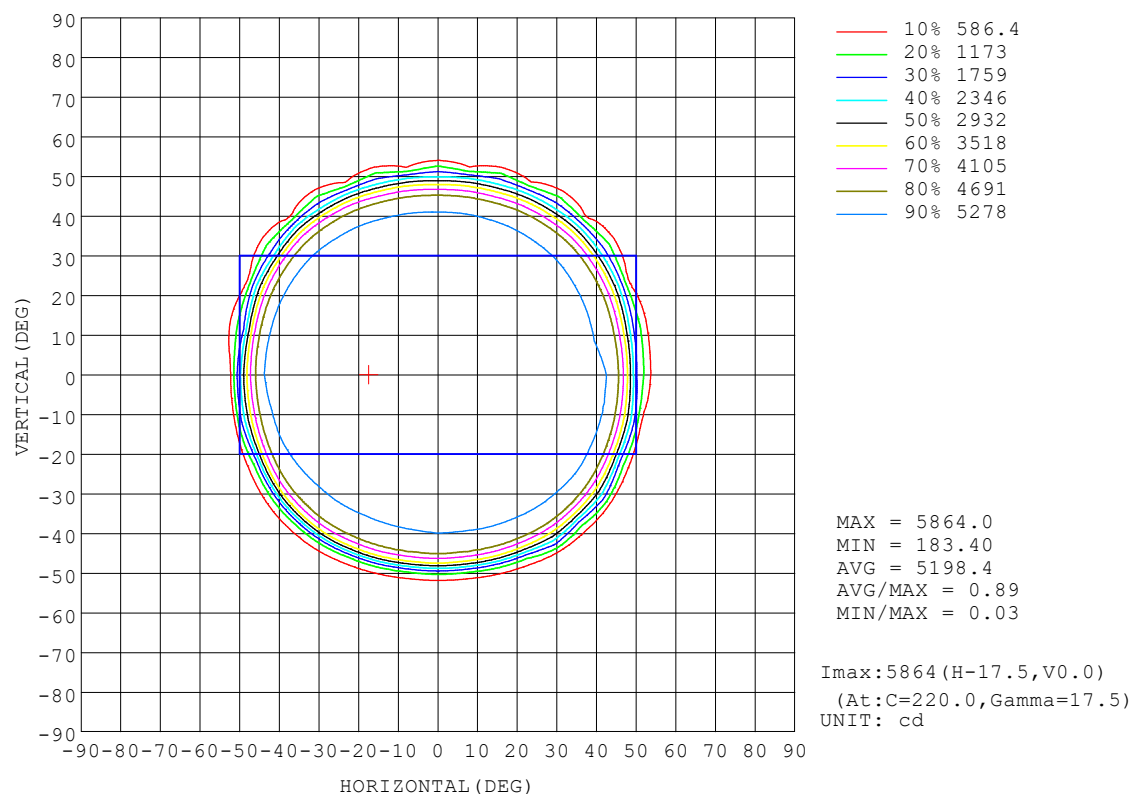
NEMA Beam Type: Type 6

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:25 August 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: 98EOS100/BL	TYPE: 98EOS100/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	Shielding Angle:

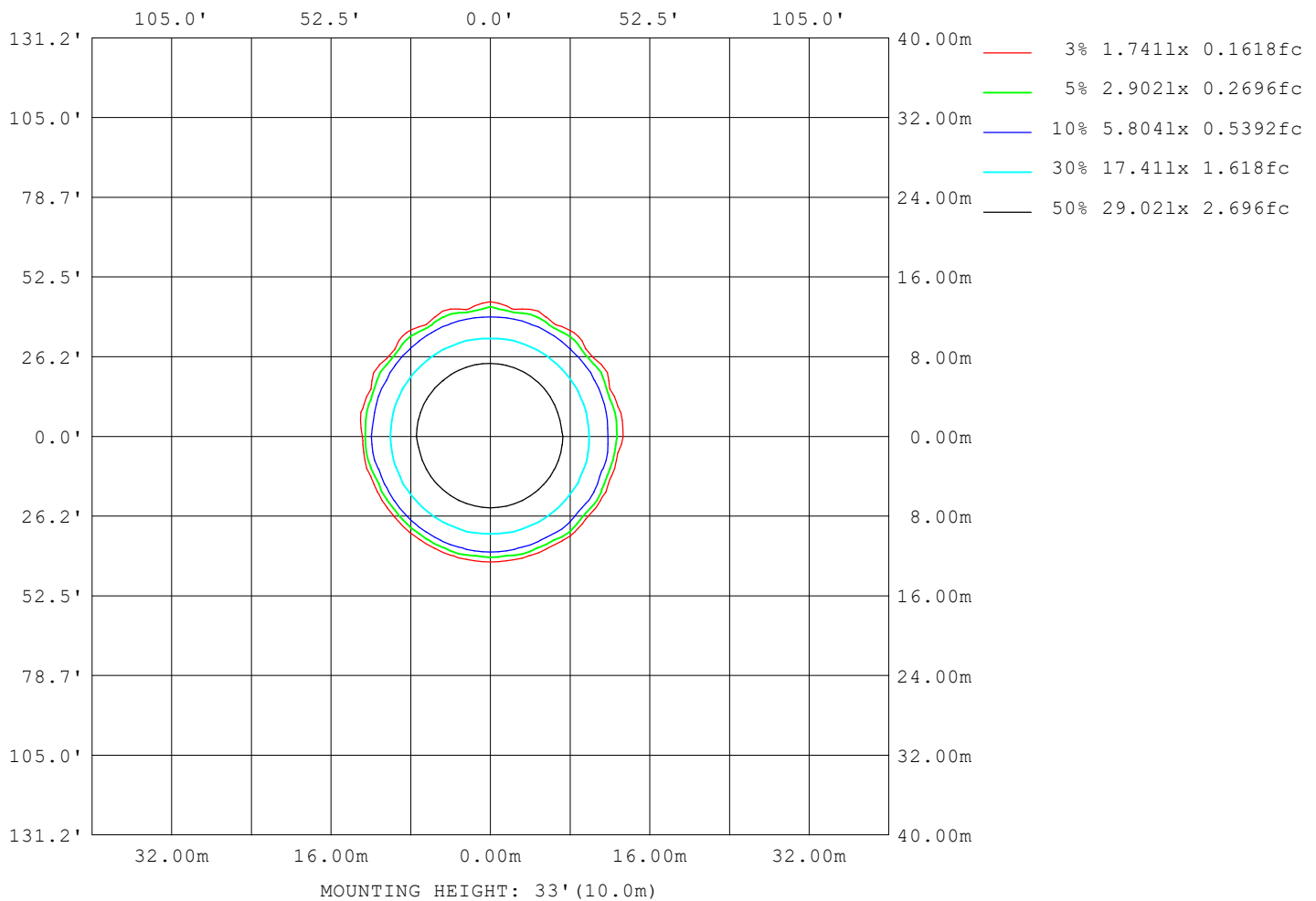


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:25 August 2022

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**

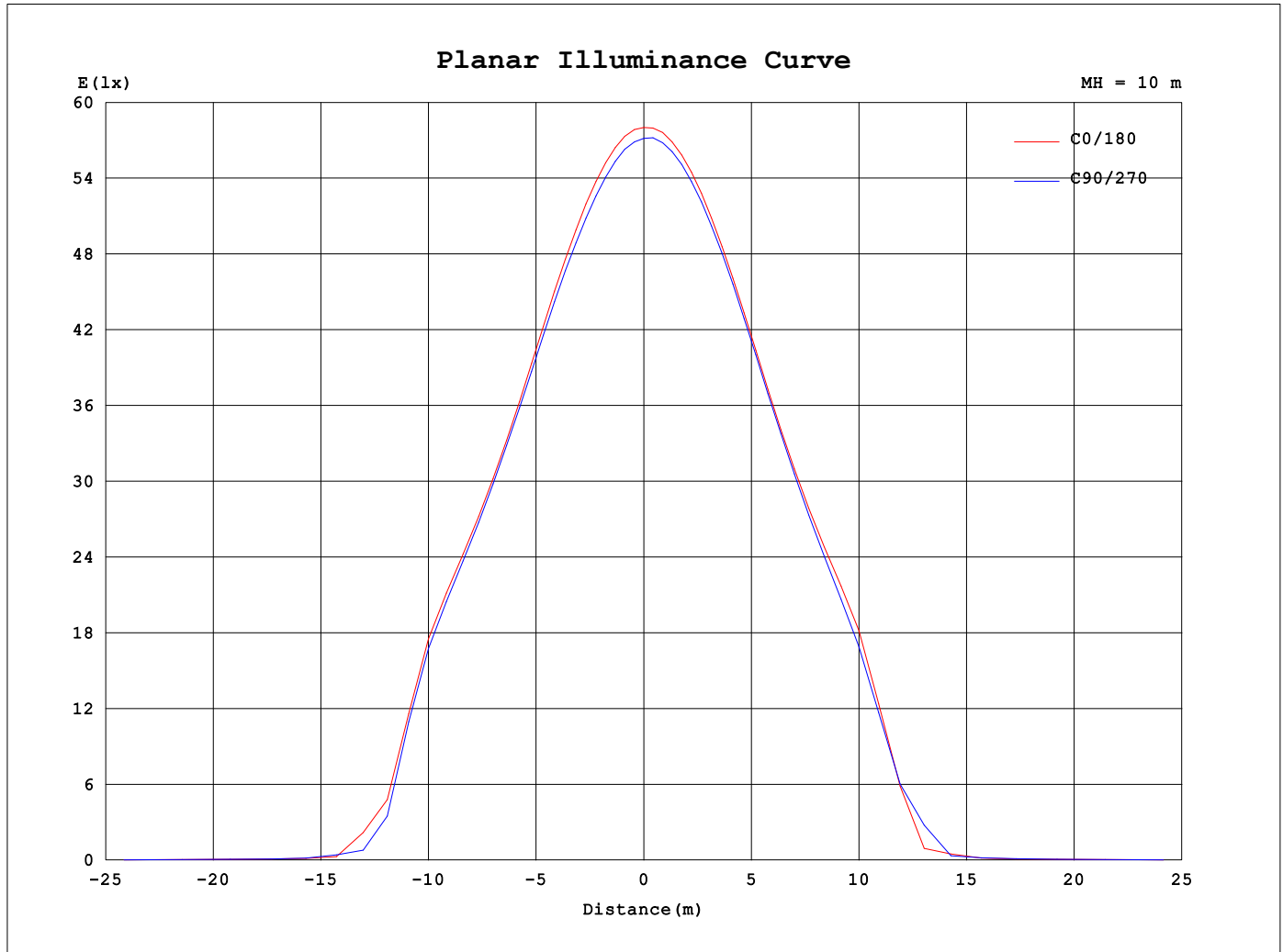
NAME: 98EOS100/BL	TYPE: 98EOS100/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	Shielding Angle:



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

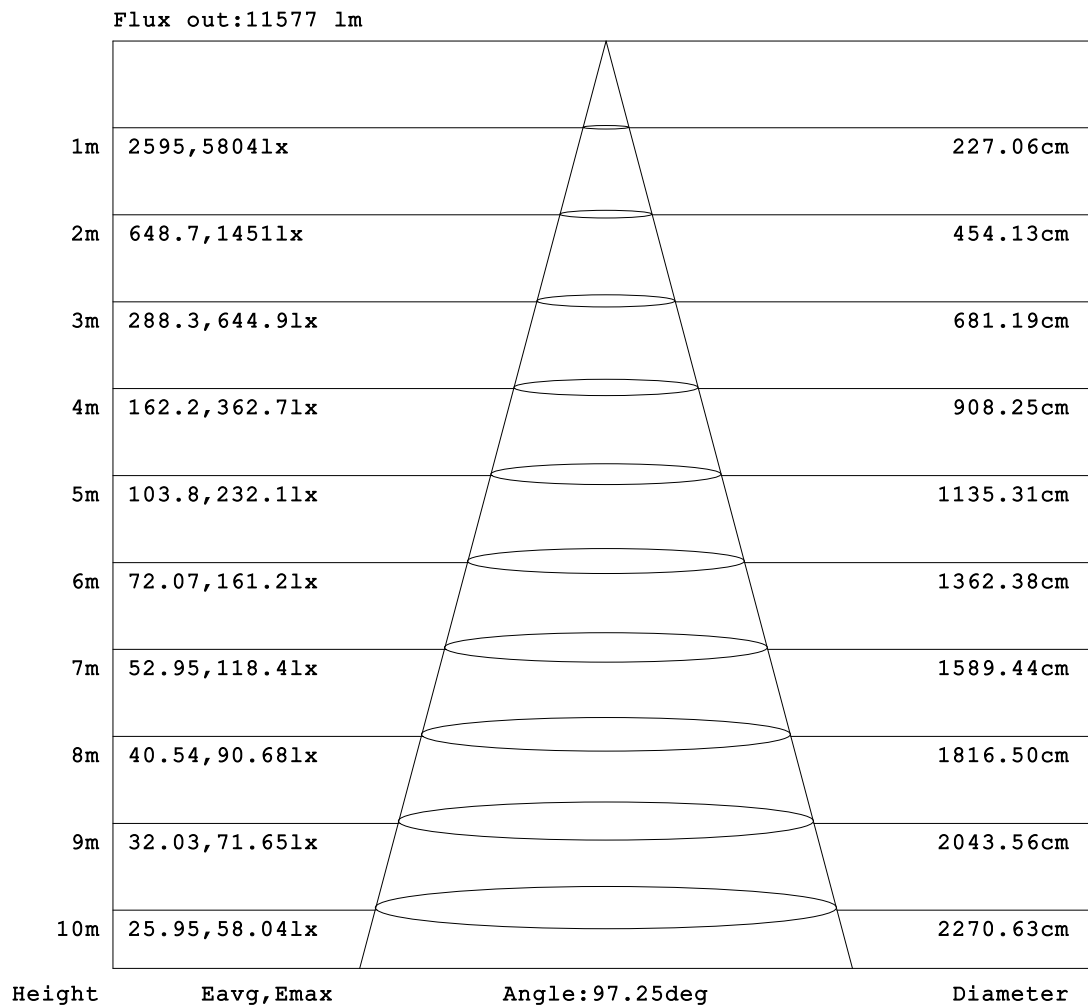


C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 25 August 2022

$\gamma$  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: 98EOS100/BL	TYPE: 98EOS100/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	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: 25 August 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: 98EOS100/BL	TYPE: 98EOS100/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	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	4.16	4.91	5.67	6.24	6.81	6.99	7.18	6.97	6.75	7.10	7.44	7.74	8.03	7.89	7.76	7.56	7.36	6.87	6.39
-85	4.16	5.79	7.49	9.16	10.9	11.9	12.6	13.0	13.2	14.5	15.9	17.0	18.0	18.1	18.0	17.2	16.3	16.1	15.8
-80	4.16	6.66	9.29	12.1	15.2	17.1	18.6	19.6	20.4	22.5	24.7	26.2	27.5	27.7	27.8	27.6	27.2	27.6	27.8
-75	4.16	7.50	11.0	15.1	19.5	22.0	24.3	26.0	27.8	30.2	32.5	34.2	35.7	36.7	37.4	37.9	38.2	38.8	39.3
-70	4.16	8.32	12.9	18.0	23.1	26.6	29.4	32.1	34.7	37.5	40.3	42.8	45.0	46.9	48.5	49.7	50.4	51.1	51.4
-65	4.16	9.10	14.7	20.7	26.5	30.7	34.2	37.8	41.3	44.9	48.8	52.5	56.0	59.2	62.2	64.5	66.1	67.0	67.2
-60	4.16	9.84	16.4	23.4	29.6	34.2	38.8	43.4	48.1	52.9	58.1	63.7	69.3	75.2	80.1	84.6	87.9	89.8	90.7
-55	4.16	10.7	18.2	25.8	32.3	37.7	43.3	49.1	55.1	61.7	69.3	77.6	86.4	97.3	109	126	138	176	230
-50	4.16	11.4	19.8	28.0	34.9	41.2	47.9	55.0	62.9	72.2	83.4	99.0	125	190	309	673	987	1198	1314
-45	4.16	12.1	21.4	30.1	37.5	44.7	52.4	61.3	72.0	85.4	107	172	434	1196	2759	3843	4321	4629	4742
-40	4.16	12.8	22.8	31.9	39.9	48.1	57.0	68.4	83.1	108	215	845	2758	4293	4893	5116	5193	5246	5276
-35	4.16	13.4	24.0	33.6	42.2	51.3	62.0	76.2	98.1	176	878	3313	4842	5149	5272	5339	5380	5405	5424
-30	4.16	13.8	25.1	35.2	44.2	54.4	67.1	84.6	124	464	2855	4898	5211	5334	5406	5454	5490	5509	5519
-25	4.16	14.3	26.0	36.5	46.1	57.1	72.2	95.7	202	1313	4453	5227	5357	5437	5500	5542	5568	5581	5586
-20	4.16	14.6	26.8	37.5	47.7	59.9	77.2	110	348	2982	5078	5351	5441	5520	5577	5613	5627	5630	5628
-15	4.16	14.8	27.4	38.4	49.0	62.1	81.8	170	940	4100	5280	5420	5508	5586	5638	5660	5661	5652	5641
-10	4.16	15.0	27.9	39.1	49.9	63.8	85.1	217	1638	4631	5351	5465	5557	5633	5680	5691	5678	5667	5664
-5	4.16	15.1	28.1	39.5	50.5	64.8	87.3	249	2050	4986	5437	5531	5610	5668	5704	5706	5692	5682	5697
0	4.16	15.0	28.1	39.7	50.7	65.2	88.2	264	2214	5143	5519	5638	5743	5823	5858	5861	5848	5830	5804
5	4.16	15.1	28.1	39.4	50.5	64.8	87.5	218	1902	5019	5499	5631	5733	5814	5851	5857	5843	5804	5748
10	4.16	15.0	27.8	39.0	49.9	63.8	85.7	167	1518	4698	5452	5607	5715	5797	5839	5852	5838	5809	5770
15	4.16	14.8	27.4	38.3	48.9	62.2	82.9	130	1175	4230	5375	5567	5676	5759	5814	5833	5834	5812	5787
20	4.16	14.6	26.7	37.3	47.6	60.0	79.0	113	586	3372	5162	5485	5611	5706	5770	5803	5814	5809	5793
25	4.16	14.2	25.9	36.2	45.9	57.2	73.8	99.7	327	2059	4578	5329	5521	5625	5698	5743	5767	5774	5765
30	4.16	13.8	25.0	34.8	43.9	54.5	68.1	88.0	184	972	3220	4983	5344	5500	5589	5646	5680	5696	5690
35	4.16	13.3	23.8	33.3	41.9	51.4	62.7	78.6	104	306	1508	3768	4948	5264	5418	5500	5544	5571	5568
40	4.16	12.8	22.6	31.5	39.7	48.2	57.6	70.0	86.7	122	413	1526	3292	4505	5017	5212	5294	5346	5354
45	4.16	12.1	21.2	29.8	37.3	44.7	52.8	62.0	75.0	90.1	137	337	1223	2130	3356	4098	4489	4721	4782
50	4.16	11.4	19.6	27.8	34.7	41.3	48.1	55.3	63.7	74.7	88.4	109	151	301	771	1547	1851	2188	2271
55	4.16	10.7	18.0	25.6	32.2	37.8	43.5	49.3	55.6	62.7	71.2	81.7	91.9	109	127	156	178	190	194
60	4.16	9.88	16.2	23.3	29.6	34.2	38.9	43.6	48.4	53.4	58.5	64.2	70.8	77.1	83.5	90.2	96.1	99.4	100
65	4.16	9.15	14.6	20.7	26.6	30.8	34.3	38.0	41.7	45.3	48.9	52.5	56.2	59.7	63.2	66.4	69.0	70.5	71.2
70	4.16	8.38	12.9	18.1	23.4	26.8	29.6	32.3	35.0	37.7	40.3	42.8	45.1	47.1	48.8	50.5	51.9	53.1	53.8
75	4.16	7.58	11.1	15.4	20.0	22.6	24.9	26.5	28.2	30.3	32.2	34.0	35.7	36.7	37.4	38.3	39.0	39.9	40.5
80	4.16	6.75	9.42	12.6	16.0	18.0	19.6	20.5	21.3	23.0	24.6	26.2	27.5	27.9	28.0	28.0	27.9	28.2	28.4
85	4.16	5.90	7.68	9.56	11.7	12.8	13.8	14.1	14.3	15.3	16.4	17.7	18.9	19.0	18.8	18.2	17.4	17.1	16.7
90	4.16	5.04	5.92	6.47	7.03	7.27	7.50	7.44	7.37	7.53	7.70	8.13	8.56	8.43	8.29	8.26	8.23	7.18	6.14

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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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

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SPEC.:	DIM.: 310 x 215 x 160	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 12 Sphere 24 mm	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	6.94	7.49	7.51	7.53	7.71	7.90	7.50	7.10	6.85	6.61	6.80	6.99	6.78	6.56	6.02	5.48	4.75	4.01	
-85	16.1	16.4	17.2	17.9	17.9	17.8	16.7	15.5	14.4	13.2	13.1	12.9	12.0	10.9	9.01	7.30	5.64	4.01	
-80	27.5	27.0	27.3	27.5	27.3	27.0	25.7	24.1	22.3	20.5	19.9	19.1	17.3	15.2	12.0	9.09	6.52	4.01	
-75	38.6	37.7	37.3	36.7	36.0	35.0	33.6	31.8	29.8	27.6	26.1	24.6	22.2	19.5	15.0	10.9	7.38	4.01	
-70	50.6	49.6	48.6	47.4	45.8	44.0	42.0	39.7	37.2	34.5	32.1	29.6	26.7	23.1	17.9	12.7	8.21	4.01	
-65	66.3	64.7	62.8	60.4	57.4	54.5	51.3	48.1	44.7	41.2	37.9	34.5	30.9	26.6	20.7	14.5	9.01	4.01	
-60	88.8	86.1	82.4	77.4	72.1	67.0	62.0	57.0	52.5	48.0	43.6	39.1	34.6	29.8	23.3	16.3	9.77	4.01	
-55	176	154	161	111	96.2	84.2	75.7	67.9	60.9	54.9	49.3	43.6	38.1	32.6	25.8	18.1	10.6	4.01	
-50	1217	1019	710	347	215	165	98.4	81.7	71.2	62.6	55.1	48.2	41.6	35.4	28.2	19.8	11.4	4.01	
-45	4624	4308	3801	2743	1468	550	229	107	84.1	71.6	61.5	52.8	45.2	38.0	30.3	21.4	12.2	4.01	
-40	5257	5216	5150	4930	4281	2914	1021	255	117	82.5	68.5	57.5	48.7	40.5	32.2	22.8	12.9	4.01	
-35	5418	5403	5372	5314	5205	4878	3231	1141	280	97.7	76.1	62.5	52.0	43.0	34.1	24.2	13.5	4.01	
-30	5511	5496	5466	5430	5372	5263	4913	3011	566	142	84.2	67.6	55.3	45.2	35.8	25.3	14.0	4.01	
-25	5577	5564	5540	5502	5450	5387	5262	4392	1630	220	95.1	72.5	58.2	47.2	37.2	26.3	14.5	4.01	
-20	5621	5615	5598	5564	5511	5449	5370	5061	2960	399	110	77.2	60.9	48.9	38.4	27.2	14.8	4.01	
-15	5644	5643	5639	5615	5563	5494	5421	5269	4003	987	182	81.3	63.1	50.3	39.4	27.8	15.1	4.01	
-10	5672	5678	5680	5660	5607	5533	5456	5338	4556	1618	205	84.1	64.7	51.4	40.1	28.3	15.3	4.01	
-5	5721	5725	5722	5701	5650	5571	5483	5379	4858	1849	189	85.7	65.7	52.0	40.6	28.6	15.4	4.01	
0	5800	5784	5769	5737	5681	5594	5499	5395	4958	1807	151	86.3	66.1	52.4	40.9	28.7	15.4	4.01	
5	5705	5676	5660	5626	5560	5494	5419	5319	4802	1775	147	84.9	65.2	51.7	40.4	28.5	15.4	4.01	
10	5736	5707	5684	5643	5569	5475	5379	5239	4457	1616	138	82.5	63.8	50.7	39.7	28.1	15.3	4.01	
15	5758	5732	5698	5642	5558	5458	5360	5183	4005	1259	125	79.0	61.7	49.3	38.7	27.6	15.1	4.01	
20	5767	5736	5688	5618	5527	5422	5307	4987	3208	628	107	75.1	59.1	47.6	37.5	26.9	14.8	4.01	
25	5743	5703	5643	5565	5473	5365	5190	4402	2023	339	94.6	71.0	56.4	45.5	36.1	26.0	14.5	4.01	
30	5669	5622	5563	5481	5381	5232	4857	3121	1008	183	83.9	66.6	53.8	43.3	34.6	25.0	14.0	4.01	
35	5549	5501	5435	5344	5181	4837	3567	1522	304	99.9	76.1	61.9	50.7	41.3	32.9	23.8	13.5	4.01	
40	5336	5272	5175	4946	4367	3137	1469	428	119	83.5	68.7	57.0	47.6	39.0	31.0	22.5	12.9	4.01	
45	4703	4437	3985	3233	2086	1200	340	137	87.7	72.9	61.7	52.3	44.2	36.7	29.2	21.1	12.3	4.01	
50	2184	1845	1531	781	303	147	108	87.3	74.2	63.8	55.1	47.7	40.8	34.2	27.3	19.6	11.5	4.01	
55	187	174	153	127	109	92.1	82.1	71.9	63.3	55.8	49.0	43.1	37.4	31.7	25.2	18.0	10.8	4.01	
60	99.7	96.7	90.9	84.5	78.4	72.2	65.6	59.5	54.0	48.5	43.3	38.5	33.8	29.2	23.0	16.3	9.95	4.01	
65	71.0	69.9	67.6	64.8	61.4	57.9	53.7	49.7	45.6	41.6	37.7	33.8	30.3	26.3	20.6	14.7	9.20	4.01	
70	53.6	52.9	51.7	50.2	48.4	46.3	43.7	40.8	37.8	34.8	31.9	29.1	26.4	23.1	18.0	13.0	8.41	4.01	
75	40.3	39.8	39.2	38.4	37.6	36.5	34.6	32.6	30.4	28.0	26.1	24.3	22.2	19.8	15.3	11.2	7.59	4.01	
80	28.4	28.2	28.4	28.5	28.4	28.1	26.7	25.1	23.1	21.1	20.1	19.1	17.6	15.8	12.5	9.51	6.74	4.01	
85	17.0	17.3	18.3	19.1	19.3	19.4	18.1	16.9	15.5	14.2	13.8	13.3	12.5	11.5	9.53	7.75	5.87	4.01	
90	7.12	8.10	8.34	8.59	8.64	8.69	8.31	7.93	7.55	7.16	7.26	7.35	7.17	6.99	6.48	5.96	4.98	4.01	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:25 August 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: