

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	522.7 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	7.5 degrees horizontal

Beam Spread	At 10% of Imax	100.9V x 100.0H
	At 50% of Imax	92.8V x 93.3H
	At 90% of Imax	69.4V x 67.3H

Beam Flux	Total	966.3 lumens per klm.
	To 10% of Imax	938.1 lumens per klm.
	To 50% of Imax	894.1 lumens per klm.
	To 90% of Imax	533.7 lumens per klm.

Upward LOR	0.0 %
Downward LOR	96.6 %

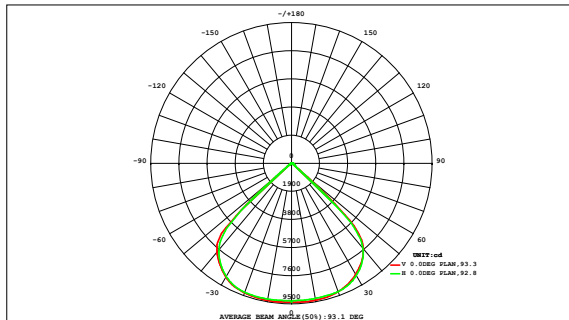
Luminaire Efficiency (Light Output Ratio)	96.6 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 26 August 2022

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: 98EOS150/BL	TYPE: 98EOS150/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 295 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Sphere 24 mm	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	98EOS150/BL	Imax (cd)	9408
NOMINAL POWER (W)	150	AVAILABILITY (%)	93.9
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	16902
NOMINAL FLUX (lm)	18000	LOR (%)	96.6
LAMPS INSIDE	1	TOTAL FLUX (lm)	17386
TEST VOLTAGE (V)	230	θ @50% (H,V)	93,93DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.03	0.13	0.28	0.41	0.54	0.71	0.83	0.86	0.83	0.82	0.84	0.84	0.74	0.57	0.42	0.29	0.14	0.03	9.31	0.00
90	0.03	0.13	0.28	0.41	0.54	0.71	0.83	0.86	0.83	0.82	0.84	0.84	0.74	0.57	0.42	0.29	0.14	0.03	9.31	0.00
80	0.04	0.21	0.48	0.77	1.07	1.39	1.64	1.79	1.87	1.88	1.80	1.67	1.43	1.12	0.80	0.51	0.23	0.04	18.7	0.00
70	0.05	0.28	0.66	1.11	1.61	2.14	2.65	3.05	3.27	3.29	3.09	2.72	2.22	1.69	1.16	0.70	0.30	0.05	30.0	0.00
60	0.06	0.34	0.82	1.45	2.26	3.32	5.01	7.81	11.5	13.0	7.97	4.97	3.41	2.38	1.54	0.88	0.37	0.06	67.2	8.06
50	0.07	0.40	0.98	1.85	3.34	9.72	53.9	122	161	164	127	61.4	10.1	3.48	1.99	1.06	0.43	0.07	723	682
40	0.08	0.45	1.14	2.36	8.14	84.2	190	234	251	250	232	192	90.7	8.58	2.56	1.24	0.49	0.08	1548	1522
30	0.08	0.49	1.28	3.10	40.5	170	229	261	275	275	260	228	175	45.1	3.38	1.40	0.54	0.09	1969	1949
20	0.09	0.52	1.39	4.30	86.3	196	242	271	282	281	269	242	198	94.2	4.66	1.55	0.57	0.09	2174	2157
10	0.09	0.53	1.46	5.74	110	203	247	274	283	281	271	248	206	119	6.06	1.66	0.60	0.10	2258	2241
0	0.09	0.53	1.46	5.67	109	200	243	269	280	283	274	251	209	120	6.03	1.67	0.60	0.10	2255	2238
-10	0.09	0.52	1.39	4.15	83.0	191	236	266	279	281	272	246	201	93.0	4.69	1.59	0.58	0.09	2161	2142
-20	0.08	0.49	1.27	2.93	36.7	164	222	254	272	274	262	232	177	40.6	3.42	1.45	0.55	0.09	1945	1923
-30	0.08	0.45	1.12	2.26	7.06	74.2	180	226	246	249	233	191	80.7	7.55	2.60	1.27	0.50	0.08	1503	1476
-40	0.07	0.40	0.96	1.79	3.09	7.68	42.0	104	142	144	109	44.6	8.30	3.53	2.02	1.08	0.44	0.07	614	563
-50	0.06	0.34	0.81	1.41	2.16	3.10	4.38	6.44	8.55	8.72	6.79	4.80	3.40	2.38	1.57	0.89	0.37	0.06	56.2	0.00
-60	0.05	0.27	0.65	1.07	1.55	2.06	2.51	2.87	3.08	3.13	2.98	2.65	2.20	1.68	1.18	0.71	0.30	0.05	29.0	0.00
-70	0.04	0.20	0.46	0.73	1.03	1.33	1.56	1.69	1.78	1.80	1.74	1.62	1.40	1.10	0.80	0.50	0.22	0.04	18.1	0.00
-80	0.03	0.12	0.25	0.36	0.49	0.63	0.74	0.76	0.72	0.73	0.77	0.76	0.66	0.52	0.39	0.27	0.13	0.03	8.36	0.00
-90	0.03	0.12	0.25	0.36	0.49	0.63	0.74	0.76	0.72	0.73	0.77	0.76	0.66	0.52	0.39	0.27	0.13	0.03	8.36	0.00
HORIZONTAL (DEG)																				
Φ t	1.15	6.69	16.8	41.5	498	1315	1904	2305	2503	2514	2334	1956	1371	547	45.3	18.7	7.37	1.26	17386	---
Φ a	0.00	0.00	0.00	0.00	452	1281	1872	2275	2474	2484	2304	1925	1335	500	0.00	0.00	0.00	0.00	---	16902

one-half-peak spread: U:41.0,D:34.4 , L:38.9,R:39.5

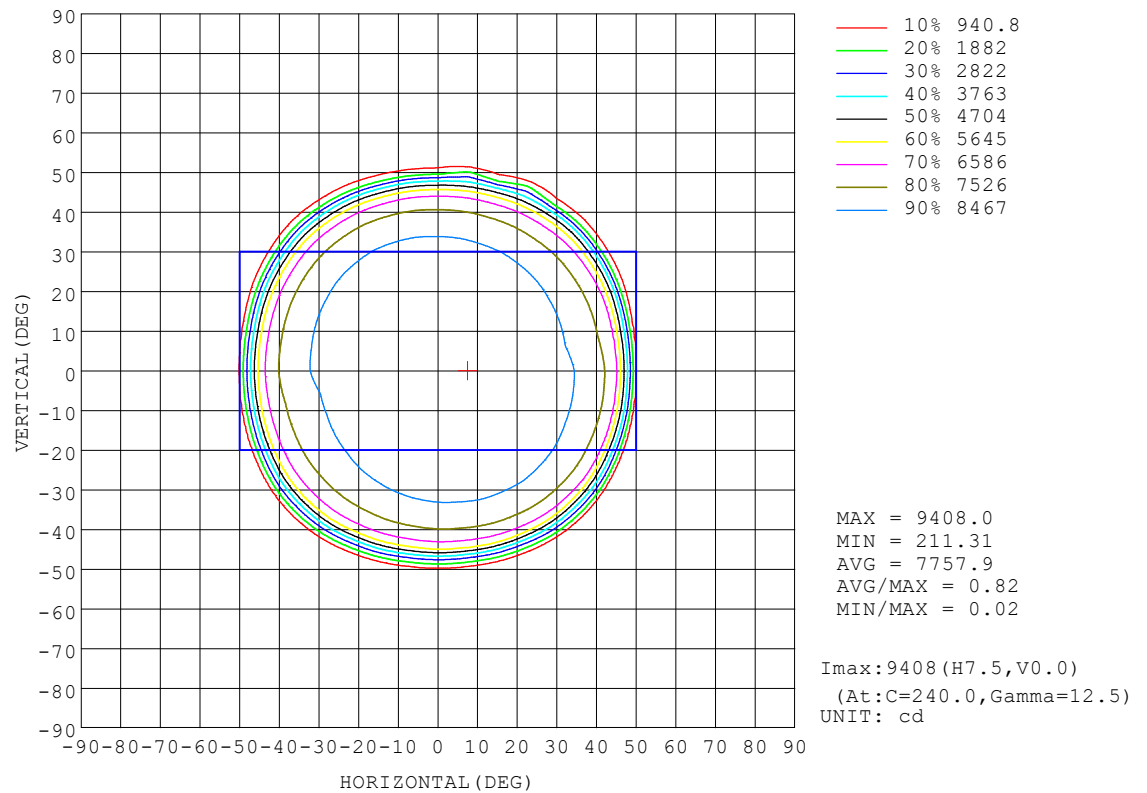
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 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: 98EOS150/BL	TYPE: 98EOS150/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 295 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Sphere 24 mm	Shielding Angle:

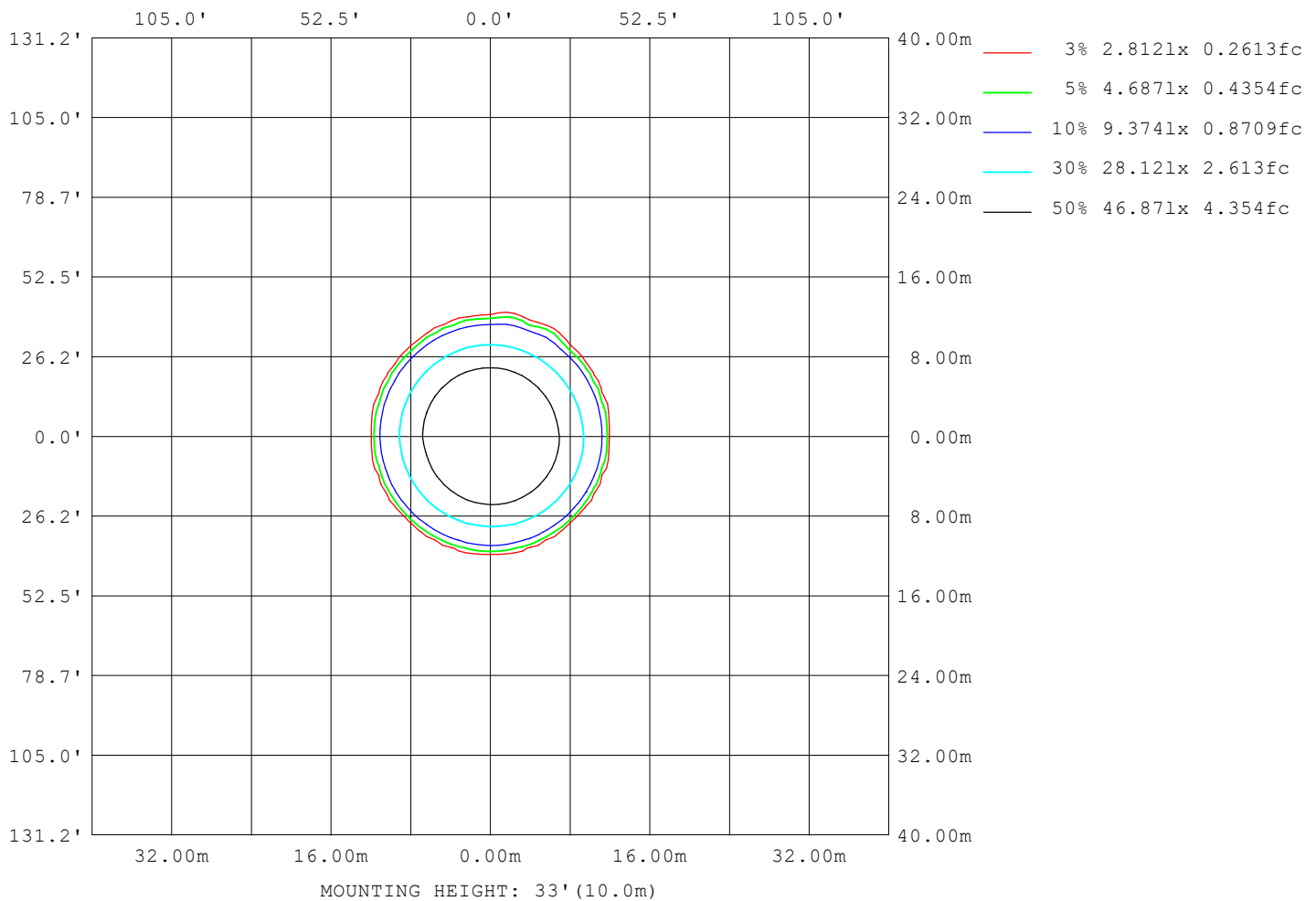


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 August 2022

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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

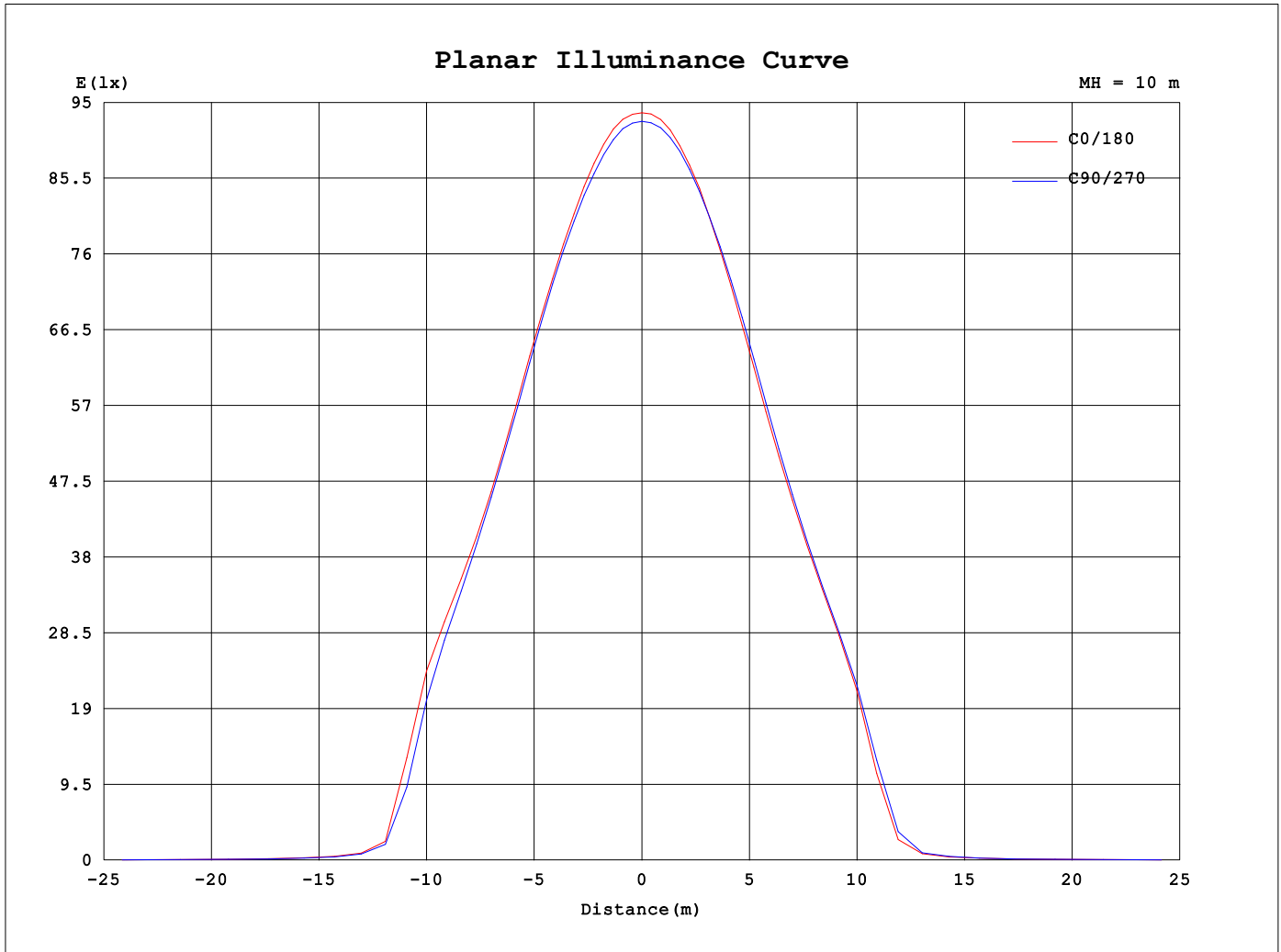
NAME: 98EOS150/BL	TYPE: 98EOS150/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 295 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 Sphere 24 mm	Shielding Angle:



C Range: 0 - 360DEG
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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:

Planar Illuminance Curve

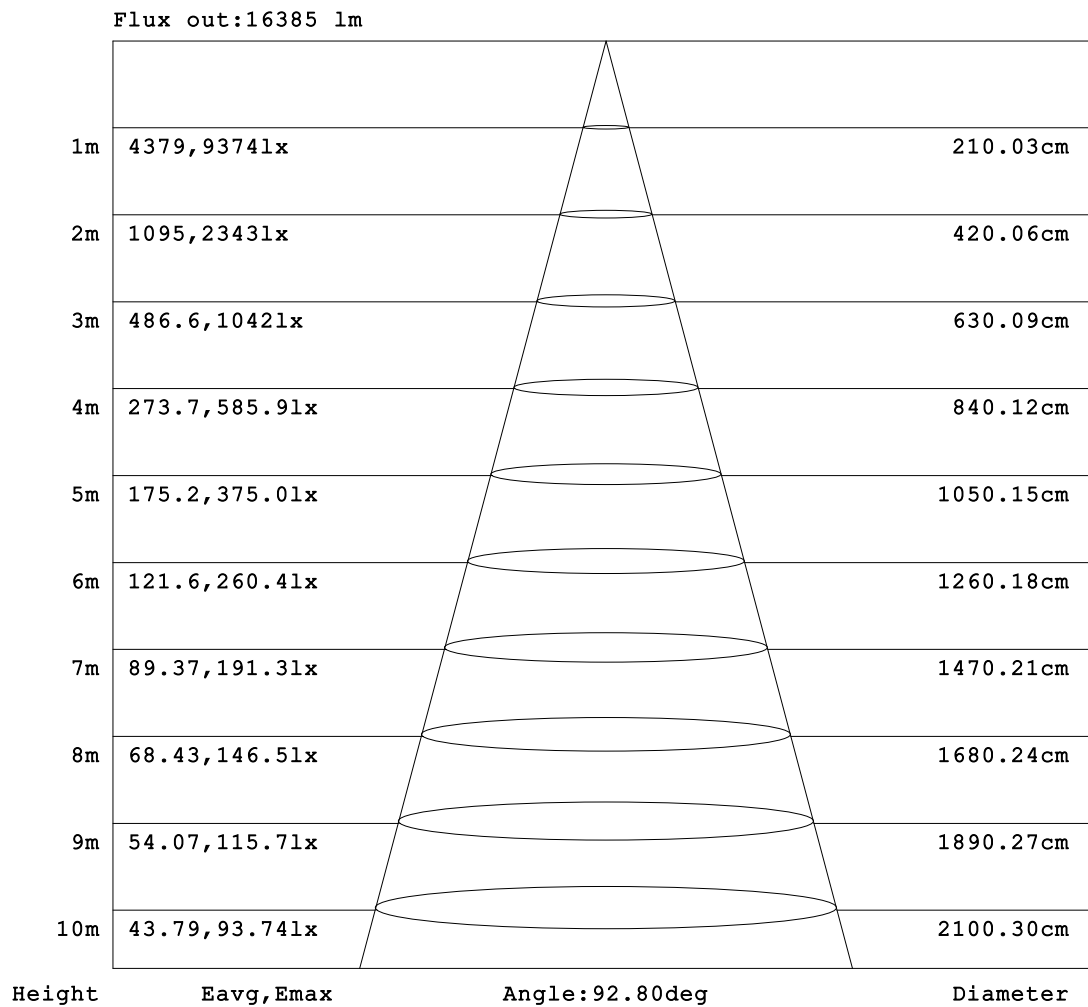


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 26 August 2022

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:

AAI Figure

NAME: 98EOS150/BL	TYPE: 98EOS150/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 295 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 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: 26 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: 98EOS150/BL	TYPE: 98EOS150/BL	WEIGHT: 1
SPEC.:	DIM.: 310 x 295 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 18 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	8.13	9.28	10.4	10.7	11.0	10.9	10.7	10.4	9.98	9.75	9.52	9.57	9.63	9.27	8.91	8.72	8.54	7.43	6.33
-85	8.13	10.7	13.2	15.4	18.0	19.1	20.1	20.7	21.1	22.6	24.0	25.6	27.2	27.5	27.5	26.0	24.3	23.2	22.0
-80	8.13	12.0	16.0	20.1	25.0	27.8	30.3	31.6	32.7	35.6	38.4	40.4	42.1	42.5	42.6	42.1	41.4	42.1	42.6
-75	8.13	13.4	18.7	24.9	31.9	35.9	39.4	42.0	44.4	47.7	50.7	53.2	55.1	56.2	56.8	57.2	57.4	58.6	59.5
-70	8.13	14.7	21.6	29.5	37.8	43.3	47.7	51.8	55.7	59.7	63.5	66.8	69.5	71.7	73.5	74.9	75.8	76.8	77.1
-65	8.13	15.9	24.3	34.0	43.3	50.0	55.8	61.4	66.6	71.9	77.3	82.2	86.4	90.2	93.9	96.6	98.2	100.0	101
-60	8.13	17.1	27.0	38.3	48.5	56.2	63.4	70.8	77.9	85.0	92.4	99.7	106	113	120	126	130	134	137
-55	8.13	18.4	29.9	42.3	53.1	62.1	71.2	80.6	90.0	99.5	110	121	132	148	172	194	208	223	232
-50	8.13	19.6	32.7	46.1	57.7	68.1	79.2	90.8	103	116	132	160	193	242	318	487	622	711	762
-45	8.13	20.7	35.3	49.5	62.0	74.2	87.2	102	118	137	167	232	379	726	2195	3591	4655	5363	5685
-40	8.13	21.7	37.7	52.7	66.1	80.1	95.1	113	135	178	260	580	2225	4531	6032	6825	7171	7401	7513
-35	8.13	22.6	39.8	55.8	70.1	85.7	104	126	163	238	613	2795	5721	6868	7431	7795	8032	8183	8278
-30	8.13	23.4	41.7	58.4	73.7	91.3	112	140	195	406	2373	5777	7020	7641	8034	8320	8535	8671	8754
-25	8.13	24.1	43.3	60.7	77.1	96.3	121	156	252	856	4739	6910	7625	8076	8421	8686	8879	9002	9070
-20	8.13	24.6	44.6	62.6	79.9	101	129	172	338	2463	6208	7425	7979	8365	8695	8939	9077	9161	9217
-15	8.13	25.0	45.6	64.1	82.2	105	136	196	563	3916	6894	7718	8198	8575	8880	9061	9163	9219	9252
-10	8.13	25.3	46.3	65.2	83.9	108	142	214	782	5015	7187	7903	8349	8712	8983	9129	9197	9235	9265
-5	8.13	25.4	46.8	66.0	84.9	110	145	226	922	5721	7418	8060	8474	8803	9036	9156	9205	9234	9278
0	8.13	25.4	46.9	66.3	85.3	110	147	231	977	6007	7562	8214	8661	9011	9228	9348	9381	9396	9374
5	8.13	25.4	46.8	66.0	84.9	110	146	228	932	5770	7502	8180	8636	8991	9213	9329	9364	9350	9291
10	8.13	25.2	46.3	65.3	83.9	108	143	219	801	5113	7333	8092	8568	8934	9176	9302	9348	9341	9308
15	8.13	25.0	45.6	64.1	82.3	105	138	202	597	4131	7067	7936	8433	8808	9089	9248	9319	9323	9304
20	8.13	24.6	44.6	62.6	80.1	102	131	179	364	2755	6424	7636	8216	8622	8927	9127	9240	9274	9276
25	8.13	24.0	43.2	60.7	77.2	96.9	124	164	277	1040	5010	7116	7881	8344	8660	8900	9050	9128	9144
30	8.13	23.4	41.6	58.4	73.9	92.2	115	147	211	463	2676	6084	7297	7904	8286	8545	8705	8808	8830
35	8.13	22.6	39.8	55.7	70.5	86.7	107	132	169	266	794	3407	6118	7162	7712	8030	8216	8326	8346
40	8.13	21.7	37.7	52.7	66.5	81.2	97.8	117	143	187	305	823	2806	5163	6543	7165	7448	7617	7648
45	8.13	20.7	35.3	49.6	62.4	75.2	89.3	105	123	147	190	277	487	1189	3031	4452	5445	6032	6205
50	8.13	19.6	32.7	46.2	58.1	69.2	80.9	93.0	107	123	143	172	223	300	398	726	1072	1291	1358
55	8.13	18.4	29.9	42.5	53.7	63.1	72.8	82.6	92.8	104	116	129	145	168	190	221	245	258	260
60	8.13	17.1	26.9	38.7	49.2	57.2	64.8	72.8	80.4	88.3	96.0	104	113	121	129	136	142	146	147
65	8.13	16.0	24.3	34.4	44.2	51.2	57.1	63.1	68.8	74.5	80.1	85.4	90.9	95.3	99.1	102	105	106	106
70	8.13	14.7	21.6	30.0	38.9	44.6	49.3	53.7	57.9	62.0	65.8	69.6	73.0	75.6	77.4	78.8	79.6	80.2	80.1
75	8.13	13.5	18.7	25.6	33.1	37.5	41.2	44.0	46.7	49.9	52.7	55.5	57.9	59.1	59.7	60.3	60.4	61.2	61.6
80	8.13	12.2	16.1	21.0	26.7	29.8	32.6	34.0	35.3	37.8	40.3	42.7	44.8	45.3	45.5	45.1	44.5	44.7	44.7
85	8.13	10.8	13.5	16.4	19.7	21.5	23.0	23.6	23.9	25.4	26.9	28.9	30.8	31.0	30.9	29.7	28.3	27.2	26.1
90	8.13	9.46	10.8	11.6	12.5	12.6	12.8	12.5	12.2	12.2	12.2	12.8	13.3	12.8	12.4	12.1	11.9	10.3	8.79

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MFR.: Elmark Industries JSC	SUR.: 18 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	7.38	8.44	8.58	8.72	9.26	9.80	9.81	9.83	10.2	10.5	11.0	11.5	11.7	11.9	11.5	11.1	9.67	8.24	
-85	23.4	24.6	26.3	27.8	28.1	28.1	26.7	25.2	23.9	22.7	22.6	22.1	21.1	19.8	16.7	14.1	11.2	8.24	
-80	42.4	42.1	43.1	43.9	44.0	44.0	42.4	40.3	37.8	35.1	34.2	33.0	30.4	27.4	21.9	17.1	12.8	8.24	
-75	59.2	58.7	58.8	58.7	58.6	57.9	56.2	54.0	51.1	47.9	45.6	43.0	39.2	34.7	27.1	20.1	14.3	8.24	
-70	77.6	77.4	77.2	76.4	75.2	73.4	71.1	68.0	64.3	60.4	56.6	52.3	47.3	41.2	32.1	23.3	15.8	8.24	
-65	101	101	100	98.3	95.0	91.7	87.7	83.2	78.0	72.6	67.2	61.3	54.9	47.4	37.1	26.4	17.2	8.24	
-60	137	135	133	127	121	114	108	100	92.5	85.4	78.0	70.0	61.9	53.3	41.9	29.4	18.5	8.24	
-55	229	220	204	180	163	146	133	121	110	99.3	89.4	78.9	68.8	58.7	46.5	32.7	20.0	8.24	
-50	717	633	502	342	271	215	174	148	130	115	101	88.3	75.7	63.9	50.9	35.8	21.3	8.24	
-45	5470	4826	3744	2286	731	406	265	193	159	133	114	98.0	82.8	69.0	54.9	38.8	22.6	8.24	
-40	7479	7342	7099	6433	4906	2382	582	294	198	159	129	108	90.0	73.8	58.6	41.5	23.8	8.24	
-35	8262	8190	8027	7740	7282	6281	3053	600	274	186	145	118	96.9	78.7	62.1	43.9	24.8	8.24	
-30	8761	8712	8565	8344	8004	7476	6409	2610	428	229	162	129	104	83.1	65.2	46.1	25.7	8.24	
-25	9089	9056	8945	8752	8444	8028	7421	5350	796	291	183	139	110	87.2	67.8	48.0	26.5	8.24	
-20	9233	9228	9171	9022	8760	8375	7863	6876	2815	376	203	149	116	90.6	70.0	49.5	27.1	8.24	
-15	9272	9280	9258	9174	8971	8601	8118	7455	4599	564	231	158	120	93.4	71.8	50.7	27.6	8.24	
-10	9298	9312	9305	9248	9085	8756	8285	7686	5797	742	251	164	123	95.4	73.1	51.6	27.9	8.24	
-5	9340	9357	9343	9289	9151	8857	8382	7813	6472	852	263	168	125	96.7	74.0	52.1	28.1	8.24	
0	9399	9400	9373	9309	9176	8882	8409	7851	6713	895	267	169	126	97.3	74.4	52.3	28.1	8.24	
5	9259	9239	9201	9135	8981	8700	8257	7719	6423	885	261	166	124	96.1	73.7	52.0	28.1	8.24	
10	9270	9240	9192	9112	8930	8588	8118	7534	5723	791	246	161	122	94.2	72.5	51.4	28.0	8.24	
15	9269	9225	9166	9050	8810	8433	7963	7324	4739	611	224	154	117	91.6	70.9	50.4	27.7	8.24	
20	9240	9184	9086	8908	8608	8196	7699	6818	3175	385	196	145	112	88.3	68.8	49.1	27.2	8.24	
25	9109	9022	8876	8630	8298	7868	7274	5522	1089	297	179	136	106	84.3	66.3	47.5	26.6	8.24	
30	8794	8676	8497	8219	7856	7359	6431	3052	482	226	163	126	101	80.1	63.5	45.7	25.9	8.24	
35	8300	8161	7959	7655	7188	6360	3829	850	276	181	143	116	94.4	76.2	60.3	43.6	25.0	8.24	
40	7591	7413	7143	6608	5397	3090	891	307	194	153	127	106	88.0	71.8	56.9	41.2	24.0	8.24	
45	6058	5521	4619	3468	1880	495	273	193	155	131	112	96.2	81.2	67.2	53.5	38.6	22.9	8.24	
50	1860	1563	778	385	291	219	174	149	130	114	99.4	86.6	74.5	62.4	49.9	35.8	21.6	8.24	
55	256	242	216	186	167	148	134	121	110	98.4	87.5	77.4	67.6	57.6	45.9	32.9	20.3	8.24	
60	146	143	138	131	124	116	108	100	92.9	84.7	76.5	68.6	60.9	52.7	41.8	29.8	18.9	8.24	
65	106	106	104	101	97.5	93.6	88.5	83.6	78.0	72.2	66.3	60.2	54.4	47.4	37.3	26.9	17.6	8.24	
70	80.4	80.1	79.5	78.4	77.0	75.0	72.1	68.4	64.6	60.4	56.1	51.6	47.2	41.7	32.7	23.9	16.2	8.24	
75	61.5	61.0	60.8	60.2	60.1	59.4	57.3	54.9	52.0	48.6	45.7	42.8	39.5	35.5	27.9	20.9	14.7	8.24	
80	44.7	44.5	45.0	45.3	45.7	45.9	44.2	42.2	39.4	36.4	35.0	33.4	31.2	28.5	22.9	18.0	13.2	8.24	
85	26.9	27.5	29.0	30.3	31.1	31.7	30.0	28.3	26.4	24.5	24.0	23.2	22.3	21.1	17.9	15.0	11.7	8.24	
90	10.1	11.5	12.0	12.4	12.9	13.3	13.2	13.1	12.9	12.7	13.0	13.3	13.3	13.4	12.7	12.0	10.1	8.24	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 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: