

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	605.1 cd per klm.
(Luminaire orientation as tested.)	0.0 degrees vertical
	0.0 degrees horizontal

Beam Spread	At 10% of Imax	129.4V x 129.3H
	At 50% of Imax	58.2V x 58.5H
	At 90% of Imax	15.4V x 16.7H

Beam Flux	Total	880.6 lumens per klm.
	To 10% of Imax	866.0 lumens per klm.
	To 50% of Imax	317.5 lumens per klm.
	To 90% of Imax	33.6 lumens per klm.

Upward LOR	0.0 %
Downward LOR	88.1 %

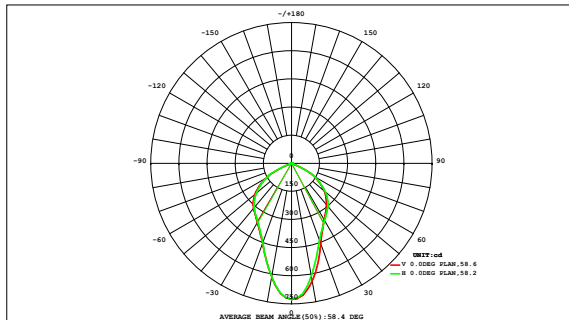
Luminaire Efficiency (Light Output Ratio)	88.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 31 August 2022

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: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96RAY15/W	Imax (cd)	726.2
NOMINAL POWER (W)	15	AVAILABILITY (%)	86.4
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	1037
NOMINAL FLUX (lm)	1200	LOR (%)	88.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1056
TEST VOLTAGE (V)	230	θ @50% (H,V)	59,58DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.26	0.00
90	0.00	0.01	0.01	0.03	0.04	0.06	0.08	0.09	0.09	0.09	0.08	0.06	0.05	0.04	0.03	0.01	0.01	0.00	0.79	0.00
80	0.00	0.01	0.02	0.05	0.12	0.40	1.10	1.79	2.28	2.30	1.86	1.09	0.36	0.09	0.05	0.02	0.01	0.00	11.6	7.79
70	0.00	0.01	0.04	0.16	1.21	2.91	4.30	5.33	5.97	6.10	5.67	4.73	3.17	1.20	0.14	0.04	0.01	0.00	41.0	39.3
60	0.00	0.02	0.07	0.95	3.04	4.69	6.31	7.58	8.36	8.45	7.96	6.92	5.31	3.30	0.98	0.06	0.01	0.00	64.0	63.0
50	0.00	0.02	0.20	2.03	4.06	5.99	7.80	9.24	10.1	10.1	9.44	8.24	6.61	4.52	2.19	0.20	0.02	0.00	80.7	80.1
40	0.00	0.02	0.50	2.66	4.82	6.94	8.96	10.8	12.0	11.9	10.8	9.17	7.38	5.35	2.94	0.52	0.02	0.00	94.9	94.3
30	0.00	0.03	0.76	3.00	5.34	7.58	10.0	13.2	15.8	15.4	12.8	10.1	7.93	5.84	3.38	0.82	0.02	0.00	112	112
20	0.00	0.03	0.88	3.21	5.59	7.91	10.8	15.6	20.0	19.6	15.0	10.9	8.32	6.12	3.60	0.98	0.02	0.00	129	128
10	0.00	0.03	0.87	3.23	5.54	7.85	10.6	15.2	19.9	19.7	15.1	11.0	8.40	6.17	3.60	0.98	0.02	0.00	128	128
0	0.00	0.03	0.71	3.05	5.25	7.47	9.70	12.5	15.2	15.2	12.8	10.2	8.09	5.91	3.37	0.81	0.02	0.00	110	110
-10	0.00	0.03	0.45	2.66	4.79	6.89	8.78	10.4	11.6	11.7	10.7	9.25	7.53	5.33	2.90	0.50	0.02	0.00	93.6	93.1
-20	0.00	0.02	0.19	1.96	4.07	6.05	7.78	9.04	9.77	9.89	9.37	8.26	6.55	4.42	2.13	0.19	0.02	0.00	79.7	79.0
-30	0.00	0.02	0.07	0.84	2.94	4.74	6.30	7.46	8.11	8.19	7.69	6.59	4.99	3.11	0.92	0.05	0.01	0.00	62.0	61.0
-40	0.00	0.01	0.04	0.14	0.97	2.70	4.18	5.13	5.61	5.64	5.21	4.33	2.87	1.06	0.13	0.03	0.01	0.00	38.1	36.2
-50	0.00	0.01	0.03	0.05	0.10	0.28	0.82	1.49	1.88	1.88	1.50	0.85	0.30	0.09	0.04	0.02	0.01	0.00	9.35	5.56
-60	0.00	0.01	0.01	0.03	0.04	0.05	0.06	0.07	0.08	0.08	0.07	0.06	0.05	0.04	0.02	0.01	0.01	0.00	0.70	0.00
-70	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.25	0.00
-80	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.25	0.00
-90	0.00	0.00	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.25	0.00
HORIZONTAL (DEG)																				
Φ t	0.04	0.32	4.86	24.1	48.0	72.6	97.7	125	147	146	126	102	77.9	52.6	26.4	5.27	0.26	0.04	1056	---
Φ a	0.00	0.00	2.68	22.5	46.6	71.3	96.4	124	146	145	125	101	76.8	51.3	25.0	3.43	0.00	0.00	---	1037

one-half-peak spread: U:29.1,D:30.2 , L:28.7,R:31.0

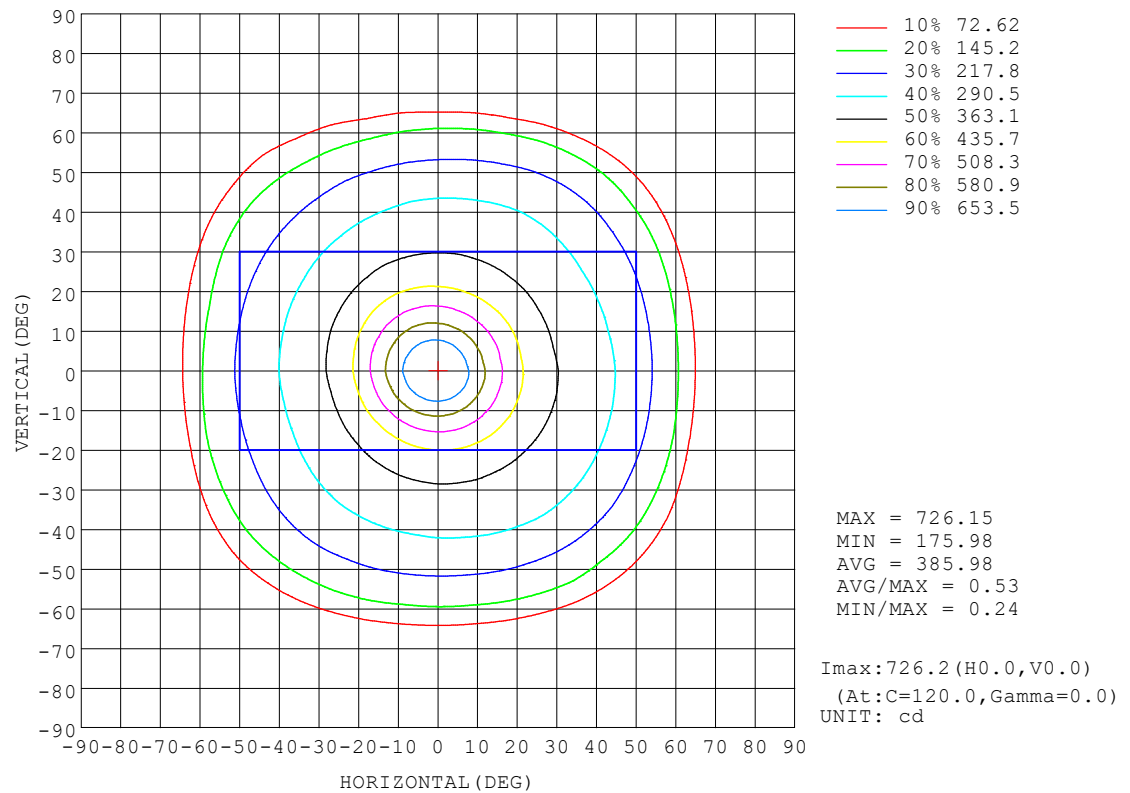
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 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: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

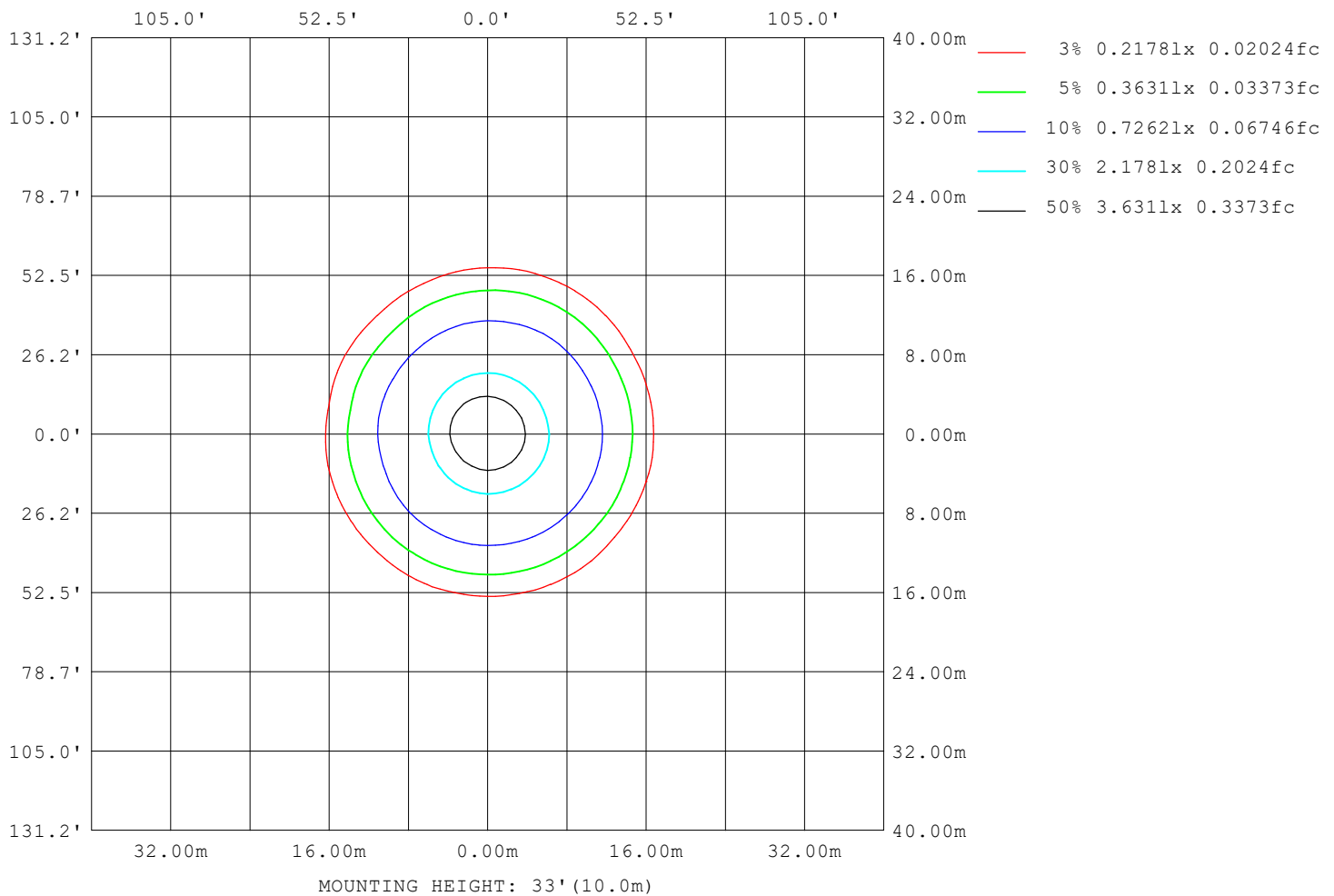


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Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
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Remarks:

ISOLUX DIAGRAM

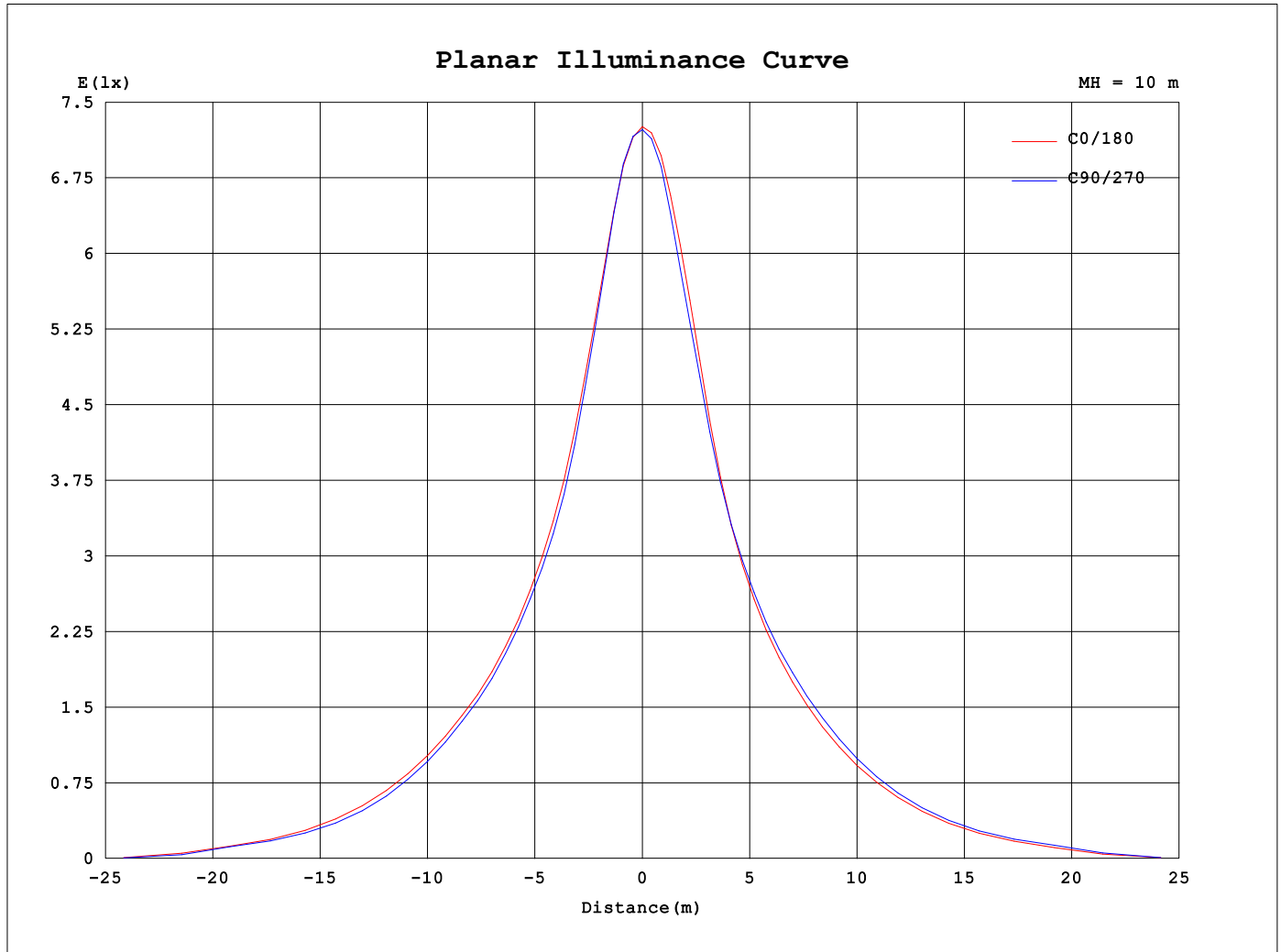
NAME: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



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

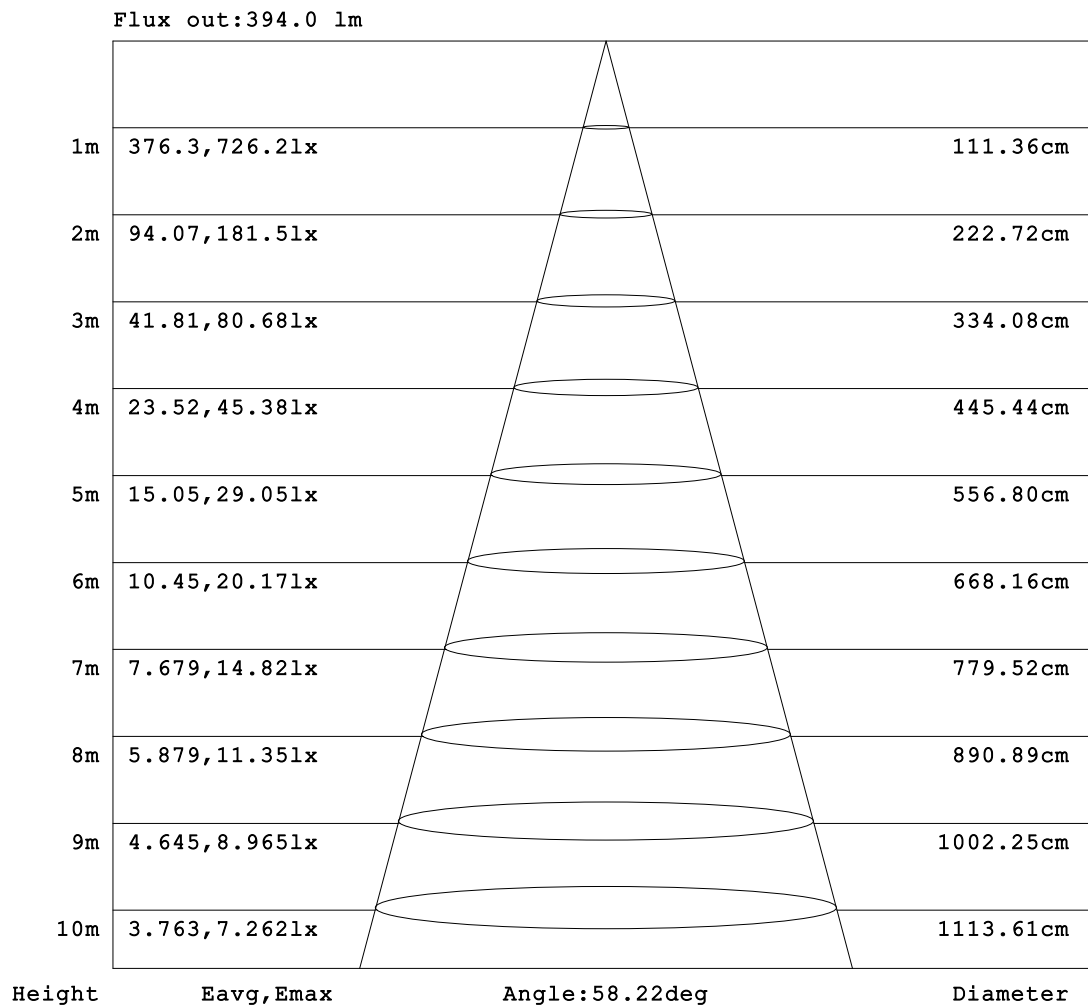


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 31 August 2022

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: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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: 31 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: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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	0.40	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.42	0.41	0.41	0.41	0.41	0.41	0.42	0.42	0.43	0.45
-85	0.38	0.43	0.49	0.52	0.55	0.57	0.57	0.63	0.68	0.70	0.71	0.72	0.73	0.67	0.59	0.59	0.58	0.66	0.73
-80	0.38	0.46	0.55	0.61	0.73	0.82	0.90	1.02	1.13	1.20	1.26	1.31	1.35	1.38	1.40	1.44	1.47	1.49	1.50
-75	0.38	0.49	0.61	0.79	0.95	1.14	1.32	1.53	1.72	1.88	2.02	2.11	2.18	2.27	2.34	2.40	2.44	2.48	2.50
-70	0.38	0.52	0.72	0.96	1.23	1.52	1.82	2.15	2.46	2.77	3.01	3.22	3.32	3.52	3.72	3.89	4.02	4.12	4.17
-65	0.38	0.54	0.83	1.17	1.54	1.94	2.40	2.91	3.46	3.98	4.59	5.70	9.33	12.8	27.0	38.0	45.3	50.1	52.1
-60	0.38	0.57	0.94	1.38	1.87	2.41	3.09	3.90	5.02	8.07	14.2	40.3	69.5	103	123	131	135	139	141
-55	0.38	0.62	1.07	1.62	2.25	2.97	3.96	5.61	11.9	37.2	79.1	119	136	152	166	175	182	186	188
-50	0.38	0.67	1.19	1.86	2.64	3.63	5.43	12.5	47.3	103	132	155	177	193	207	219	226	231	234
-45	0.38	0.71	1.31	2.11	3.12	4.44	9.28	40.1	105	139	166	192	213	230	244	256	264	269	272
-40	0.38	0.75	1.42	2.37	3.62	6.08	16.5	82.2	135	166	195	221	242	259	273	285	293	299	303
-35	0.38	0.79	1.54	2.59	4.26	8.54	43.8	120	157	190	219	244	265	284	297	308	316	322	325
-30	0.38	0.82	1.64	2.84	4.87	13.6	70.5	139	175	208	237	262	284	302	317	330	342	349	354
-25	0.38	0.85	1.73	3.07	5.77	18.4	97.1	154	190	223	251	277	299	318	337	355	371	382	387
-20	0.38	0.87	1.80	3.25	6.71	31.1	115	166	203	234	263	290	313	334	358	382	407	427	436
-15	0.38	0.88	1.86	3.40	7.49	42.1	127	175	212	244	274	300	324	351	382	421	466	502	516
-10	0.38	0.90	1.90	3.50	8.08	51.1	135	181	219	251	281	308	334	367	411	474	540	591	609
-5	0.38	0.90	1.92	3.56	8.48	57.6	139	184	225	258	287	315	343	381	439	521	606	670	697
0	0.38	0.90	1.93	3.57	8.65	61.0	139	185	228	261	291	319	349	392	456	548	637	705	726
5	0.38	0.90	1.91	3.49	8.49	60.3	137	183	226	260	289	317	347	389	451	534	613	673	694
10	0.38	0.89	1.87	3.38	8.07	55.8	132	178	221	257	285	312	341	380	430	495	560	604	613
15	0.38	0.88	1.82	3.23	7.40	47.4	126	171	213	249	278	304	331	363	402	448	493	523	530
20	0.38	0.86	1.76	3.05	6.46	35.0	118	163	203	238	267	293	317	343	373	404	431	448	450
25	0.38	0.83	1.67	2.84	5.26	18.4	104	152	191	224	253	279	303	325	345	368	385	396	397
30	0.38	0.81	1.58	2.61	4.13	13.9	80.6	140	176	208	236	261	285	307	324	338	351	359	361
35	0.38	0.77	1.47	2.38	3.66	9.01	52.3	122	159	189	216	241	263	283	302	316	325	332	335
40	0.38	0.74	1.36	2.16	3.17	6.12	17.9	90.6	138	168	192	217	239	258	275	289	300	308	311
45	0.38	0.70	1.25	1.94	2.77	3.81	10.5	47.7	112	142	165	189	210	230	246	259	270	278	281
50	0.38	0.65	1.13	1.71	2.38	3.19	5.72	14.6	59.6	114	138	156	177	197	212	224	234	241	244
55	0.38	0.60	1.01	1.50	2.04	2.66	3.47	6.54	15.0	53.0	95.8	126	140	156	170	182	192	198	202
60	0.38	0.55	0.89	1.28	1.71	2.19	2.78	3.48	6.03	11.4	19.9	54.7	87.8	112	127	137	146	152	154
65	0.38	0.53	0.79	1.09	1.41	1.78	2.20	2.69	3.29	4.00	6.55	9.71	15.5	20.5	38.3	54.5	70.6	76.7	76.1
70	0.38	0.50	0.68	0.89	1.13	1.41	1.70	2.03	2.40	2.84	3.31	3.82	4.31	5.31	6.21	6.80	7.13	6.75	6.02
75	0.38	0.47	0.57	0.72	0.87	1.07	1.26	1.47	1.69	1.95	2.22	2.46	2.70	2.84	2.91	2.91	2.87	2.75	2.60
80	0.38	0.44	0.51	0.56	0.65	0.77	0.87	0.99	1.11	1.24	1.38	1.50	1.61	1.67	1.71	1.70	1.68	1.63	1.57
85	0.38	0.41	0.45	0.47	0.49	0.53	0.57	0.60	0.64	0.70	0.76	0.78	0.79	0.76	0.73	0.65	0.57	0.67	0.76
90	0.38	0.38	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.38	0.37	0.36	0.35	0.35	0.35	0.35

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Humidity:65.0%
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Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96RAY15/W	TYPE: 96RAY15/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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	0.45	0.45	0.43	0.41	0.42	0.42	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	0.41	
-85	0.76	0.78	0.76	0.73	0.72	0.71	0.68	0.64	0.62	0.59	0.54	0.49	0.49	0.48	0.46	0.44	0.42	0.41	
-80	1.49	1.48	1.43	1.38	1.33	1.27	1.21	1.13	1.05	0.97	0.86	0.75	0.68	0.61	0.51	0.47	0.44	0.41	
-75	2.47	2.42	2.35	2.26	2.16	2.04	1.94	1.82	1.65	1.47	1.28	1.09	0.93	0.78	0.64	0.50	0.46	0.41	
-70	4.11	3.99	3.81	3.60	3.37	3.14	3.03	2.75	2.45	2.11	1.79	1.49	1.23	1.00	0.78	0.59	0.48	0.41	
-65	49.9	44.9	38.2	27.8	14.1	10.4	6.10	4.59	3.69	3.03	2.43	1.95	1.57	1.24	0.94	0.68	0.50	0.41	
-60	139	136	132	125	107	73.2	44.4	17.3	8.96	4.63	3.32	2.51	1.94	1.49	1.10	0.77	0.51	0.41	
-55	187	184	178	170	158	143	127	85.8	41.4	13.6	4.77	3.21	2.36	1.78	1.29	0.87	0.55	0.41	
-50	233	229	223	213	200	184	163	139	111	51.5	13.5	4.20	2.83	2.06	1.47	0.98	0.59	0.41	
-45	272	269	264	254	241	223	201	174	145	112	45.2	8.31	3.36	2.38	1.65	1.07	0.63	0.41	
-40	303	301	295	287	275	258	236	209	177	142	91.5	17.4	4.13	2.69	1.83	1.17	0.67	0.41	
-35	326	324	320	312	302	286	264	238	207	168	129	52.5	5.98	3.06	2.01	1.27	0.70	0.41	
-30	353	348	340	331	320	306	287	261	230	191	148	83.7	12.1	3.38	2.19	1.36	0.73	0.41	
-25	386	378	365	350	334	321	304	279	249	210	166	113	17.8	3.78	2.36	1.43	0.75	0.41	
-20	432	417	396	373	352	332	315	294	264	226	181	132	35.2	4.18	2.51	1.50	0.77	0.41	
-15	505	473	435	399	370	345	324	305	275	239	193	141	49.6	4.52	2.64	1.56	0.79	0.41	
-10	587	538	479	425	386	356	332	311	283	248	201	147	60.7	4.79	2.73	1.60	0.80	0.41	
-5	665	592	514	446	398	363	336	315	288	253	207	151	68.2	4.99	2.80	1.63	0.81	0.41	
0	695	614	529	453	402	365	337	316	289	255	209	152	71.5	5.10	2.84	1.64	0.82	0.41	
5	658	587	513	443	394	359	332	311	286	252	207	151	69.3	5.06	2.83	1.63	0.81	0.41	
10	589	537	478	423	383	351	326	305	280	247	202	147	62.8	4.93	2.79	1.61	0.80	0.41	
15	511	476	435	398	367	340	317	297	272	239	193	140	52.0	4.71	2.71	1.58	0.79	0.41	
20	441	421	397	373	350	327	308	288	263	228	182	131	37.1	4.41	2.61	1.53	0.77	0.41	
25	393	382	367	350	332	314	296	276	250	214	168	114	18.3	4.03	2.47	1.46	0.75	0.41	
30	359	352	342	330	315	301	284	261	233	195	151	85.9	12.7	3.63	2.31	1.39	0.72	0.41	
35	334	329	321	312	300	286	266	243	211	172	133	53.8	6.41	3.32	2.13	1.30	0.69	0.41	
40	310	307	301	292	280	264	245	218	184	147	95.7	18.8	4.51	2.96	1.95	1.20	0.66	0.41	
45	281	278	272	264	254	238	214	187	154	118	49.2	8.81	3.78	2.64	1.76	1.10	0.63	0.41	
50	244	242	237	229	217	199	177	152	119	60.1	13.8	4.47	3.25	2.30	1.56	0.99	0.59	0.41	
55	203	200	194	185	173	157	136	97.9	49.8	13.7	4.71	3.57	2.72	1.99	1.37	0.88	0.54	0.41	
60	155	153	146	138	121	91.6	56.0	18.4	8.64	4.40	3.57	2.86	2.23	1.66	1.16	0.77	0.50	0.41	
65	76.8	71.0	56.3	39.2	19.0	12.7	6.00	4.25	3.67	3.21	2.73	2.24	1.79	1.36	0.98	0.67	0.48	0.41	
70	5.62	5.09	4.42	3.89	3.62	3.35	3.13	2.87	2.62	2.32	2.03	1.71	1.38	1.07	0.78	0.58	0.46	0.41	
75	2.55	2.48	2.44	2.37	2.29	2.18	2.07	1.94	1.79	1.62	1.43	1.22	1.01	0.79	0.63	0.48	0.44	0.41	
80	1.54	1.50	1.48	1.44	1.40	1.34	1.28	1.20	1.12	1.02	0.92	0.81	0.70	0.58	0.47	0.43	0.42	0.41	
85	0.77	0.77	0.76	0.75	0.72	0.69	0.68	0.66	0.61	0.56	0.53	0.50	0.46	0.42	0.40	0.38	0.40	0.41	
90	0.35	0.35	0.36	0.36	0.36	0.36	0.33	0.31	0.30	0.30	0.32	0.35	0.34	0.34	0.34	0.34	0.37	0.41	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:31 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: