

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	652.6 cd per klm.
(Luminaire orientation as tested.)	2.0 degrees vertical
	1.5 degrees horizontal

Beam Spread	At 10% of Imax	128.0V x 128.2H
	At 50% of Imax	67.5V x 67.4H
	At 90% of Imax	13.0V x 13.3H

Beam Flux	Total	975.0 lumens per klm.
	To 10% of Imax	958.1 lumens per klm.
	To 50% of Imax	419.4 lumens per klm.
	To 90% of Imax	24.1 lumens per klm.

Upward LOR	0.0 %
Downward LOR	97.5 %

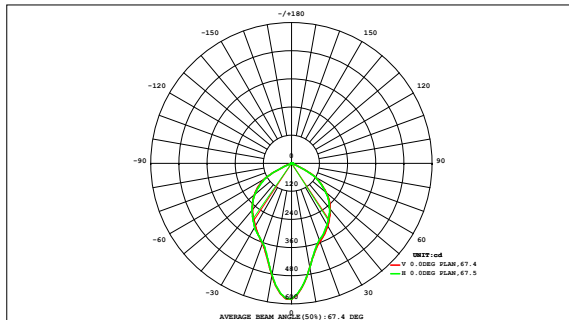
Luminaire Efficiency (Light Output Ratio)	97.4 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 31 August 2022

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: 96RAY10/W	TYPE: 96RAY10/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	96RAY10/W	Imax (cd)	580.8
NOMINAL POWER (W)	10	AVAILABILITY (%)	95.7
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	851.8
NOMINAL FLUX (lm)	890	LOR (%)	97.4
LAMPS INSIDE	1	TOTAL FLUX (lm)	867.3
TEST VOLTAGE (V)	230	θ @50% (H,V)	67,68DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM															UNIT:lm			Φ t	Φ a
	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.15	0.00
90	0.00	0.00	0.01	0.02	0.02	0.04	0.05	0.06	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.01	0.00	0.00	0.50	0.00
80	0.00	0.01	0.02	0.03	0.06	0.21	0.68	1.26	1.62	1.65	1.33	0.74	0.24	0.06	0.03	0.01	0.01	0.00	7.96	4.93
70	0.00	0.01	0.02	0.08	0.77	2.40	3.79	4.64	5.03	5.12	4.80	3.95	2.52	0.85	0.09	0.02	0.01	0.00	34.1	32.8
60	0.00	0.01	0.04	0.62	2.63	4.27	5.60	6.54	7.05	7.08	6.63	5.72	4.41	2.76	0.68	0.04	0.01	0.00	54.1	53.3
50	0.00	0.01	0.11	1.62	3.59	5.40	6.88	8.00	8.67	8.68	8.04	6.92	5.47	3.79	1.76	0.13	0.01	0.00	69.1	68.5
40	0.00	0.01	0.30	2.22	4.22	6.18	7.88	9.31	10.1	10.2	9.37	7.90	6.22	4.41	2.48	0.35	0.02	0.00	81.2	80.8
30	0.00	0.02	0.50	2.53	4.65	6.73	8.69	10.4	11.9	12.4	10.7	8.71	6.75	4.81	2.84	0.59	0.02	0.00	92.2	91.8
20	0.00	0.02	0.64	2.70	4.87	7.03	9.13	11.3	15.1	15.9	12.0	9.20	7.03	5.02	3.01	0.73	0.02	0.00	104	103
10	0.00	0.02	0.65	2.69	4.84	6.98	9.03	11.2	14.7	15.1	11.7	9.14	7.04	5.03	3.00	0.73	0.02	0.00	102	101
0	0.00	0.02	0.52	2.51	4.55	6.61	8.52	10.1	11.5	11.5	10.2	8.61	6.74	4.82	2.82	0.58	0.02	0.00	89.7	89.3
-10	0.00	0.02	0.30	2.13	4.03	5.95	7.65	8.99	9.80	9.83	9.11	7.82	6.20	4.39	2.41	0.33	0.02	0.00	79.0	78.5
-20	0.00	0.01	0.11	1.47	3.31	4.99	6.50	7.64	8.33	8.42	7.89	6.82	5.36	3.69	1.64	0.11	0.01	0.00	66.3	65.7
-30	0.00	0.01	0.04	0.56	2.32	3.79	5.05	6.04	6.65	6.76	6.33	5.40	4.17	2.56	0.58	0.04	0.01	0.00	50.3	49.5
-40	0.00	0.01	0.03	0.09	0.64	2.03	3.26	4.08	4.53	4.61	4.27	3.47	2.19	0.67	0.08	0.03	0.01	0.00	30.0	28.4
-50	0.00	0.01	0.02	0.03	0.07	0.19	0.53	0.99	1.30	1.31	1.02	0.54	0.19	0.07	0.04	0.02	0.01	0.00	6.32	3.31
-60	0.00	0.00	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.07	0.06	0.05	0.04	0.03	0.02	0.01	0.00	0.00	0.56	0.00
-70	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.17	0.00
-80	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.17	0.00
-90	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.00	0.00	0.00	0.17	0.00
HORIZONTAL (DEG)																				
Φ t	0.02	0.19	3.32	19.3	40.6	62.9	83.3	101	117	119	104	85.1	64.6	43.0	21.5	3.73	0.19	0.03	867	---
Φ a	0.00	0.00	1.84	18.1	39.6	61.9	82.3	99.7	116	118	103	84.1	63.7	41.9	20.3	2.23	0.00	0.00	---	852

one-half-peak spread: U:33.3,D:35.3 , L:34.2,R:34.2

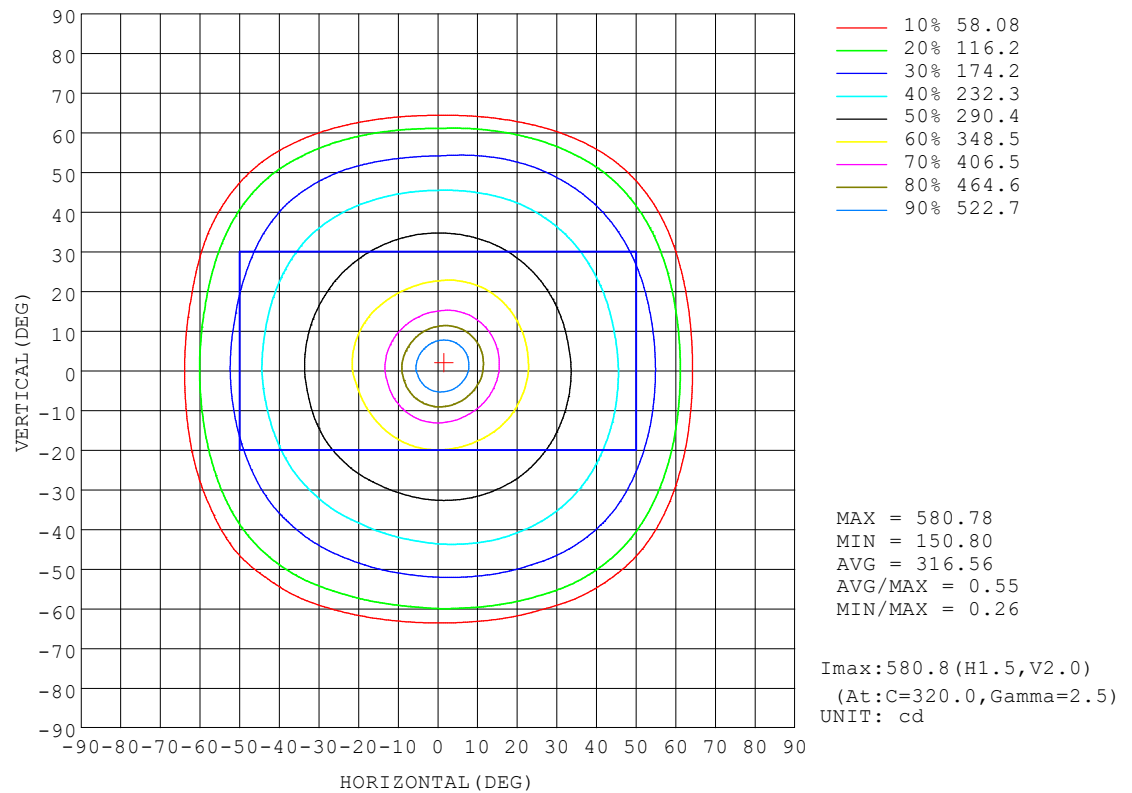
NEMA Beam Type: Type 6

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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: 96RAY10/W	TYPE: 96RAY10/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

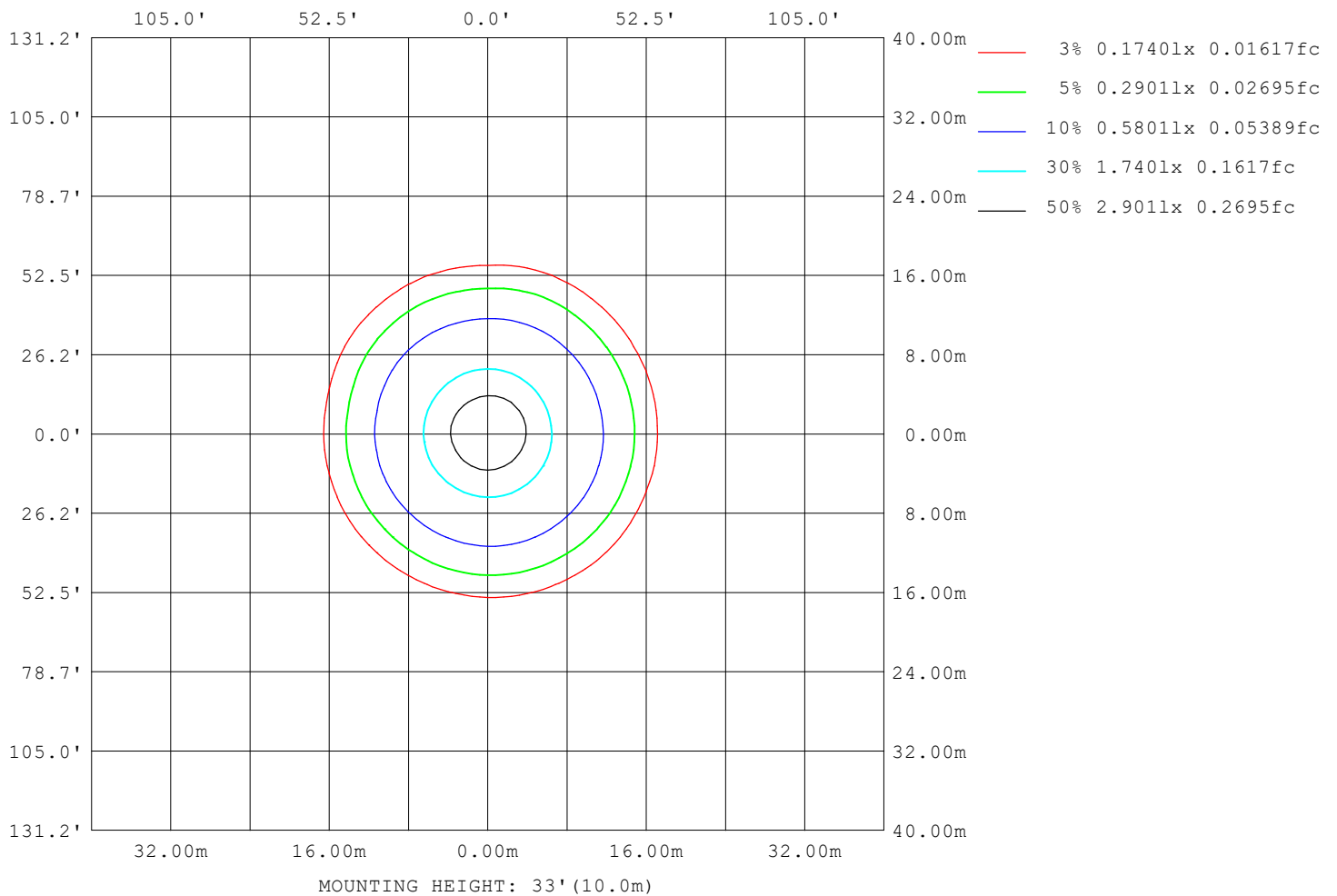


C Range: 0 - 360DEG
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Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:31 August 2022

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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

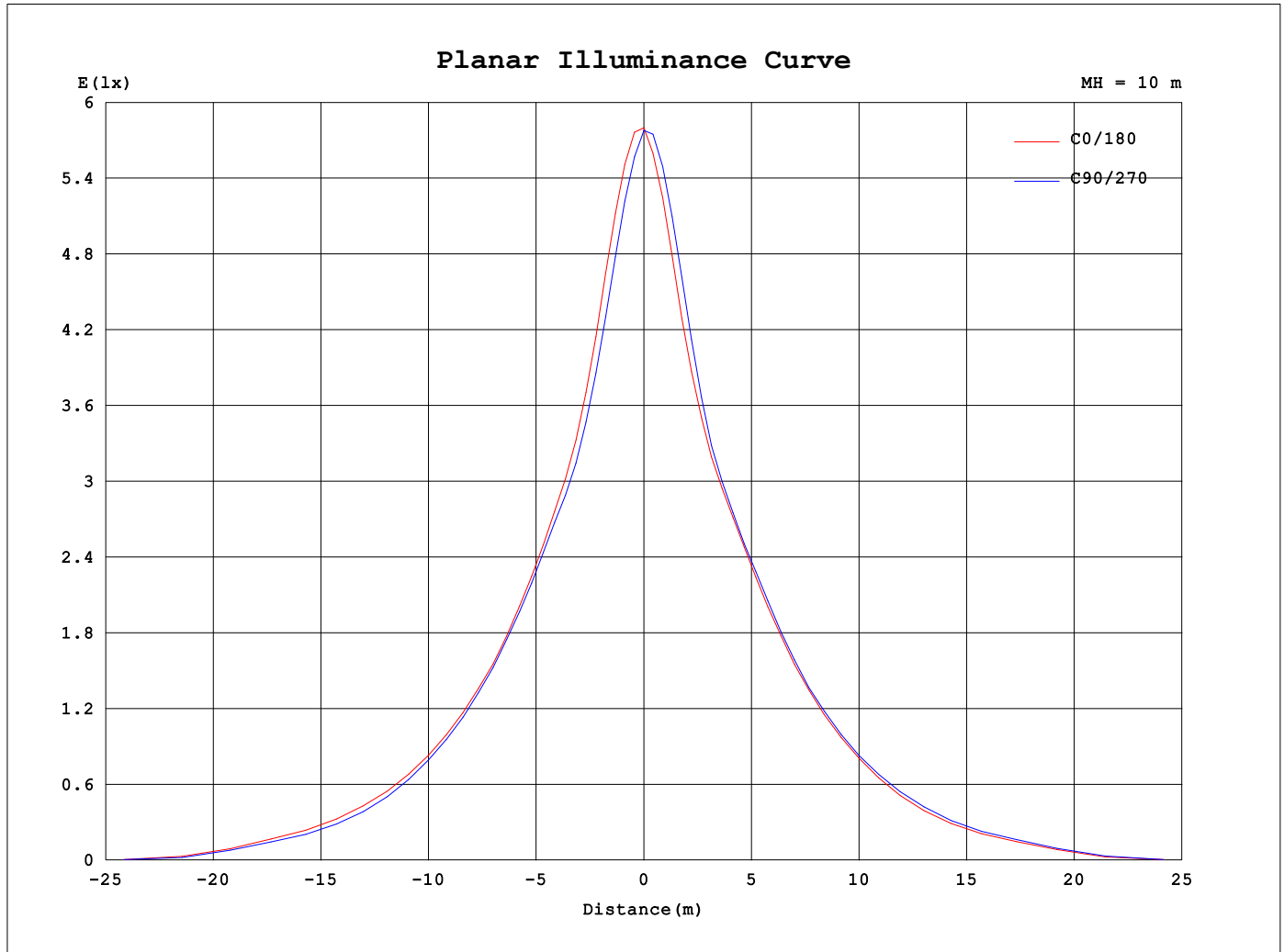
NAME: 96RAY10/W	TYPE: 96RAY10/W	WEIGHT: 1
SPEC.:	DIM.: F 150 x 87	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



C Range: 0 - 360DEG
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Test Speed: MEDIUM
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Operators:
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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

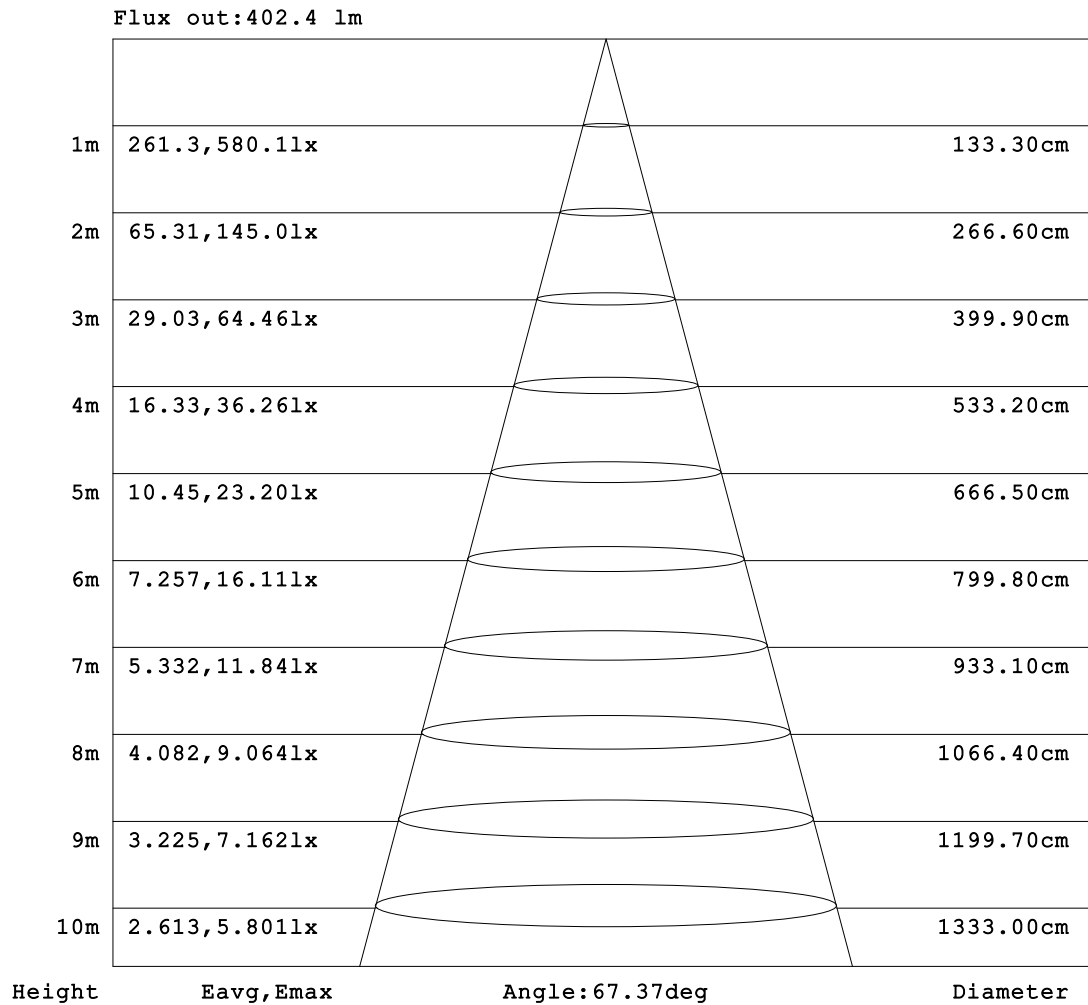


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 31 August 2022

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: 96RAY10/W	TYPE: 96RAY10/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: MEDIUM
 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: 96RAY10/W	TYPE: 96RAY10/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	0.19	0.22	0.24	0.25	0.25	0.25	0.24	0.25	0.25	0.24	0.24	0.24	0.25	0.25	0.24	0.25	0.25	0.25	0.25
-85	0.19	0.23	0.26	0.28	0.30	0.30	0.30	0.35	0.39	0.41	0.43	0.46	0.49	0.46	0.43	0.39	0.36	0.43	0.51
-80	0.19	0.24	0.28	0.32	0.41	0.46	0.52	0.61	0.71	0.78	0.84	0.94	1.03	1.07	1.11	1.16	1.19	1.20	1.19
-75	0.19	0.25	0.31	0.44	0.56	0.69	0.80	0.96	1.12	1.27	1.42	1.57	1.72	1.84	1.93	2.01	2.06	2.07	2.05
-70	0.19	0.25	0.38	0.55	0.75	0.95	1.15	1.40	1.65	1.91	2.14	2.40	2.64	3.06	3.46	3.71	3.81	3.80	3.69
-65	0.19	0.26	0.46	0.70	0.97	1.25	1.57	1.92	2.29	2.64	3.63	4.87	7.15	9.17	16.5	22.3	26.4	29.1	30.2
-60	0.19	0.27	0.53	0.84	1.19	1.60	2.04	2.50	3.56	5.76	9.39	24.5	43.7	68.0	86.1	98.1	107	113	116
-55	0.19	0.30	0.62	1.00	1.45	1.98	2.54	3.92	7.60	23.4	51.9	87.6	111	122	131	139	145	150	152
-50	0.19	0.34	0.70	1.16	1.70	2.37	3.61	7.65	29.0	69.0	107	126	140	153	164	174	181	187	190
-45	0.19	0.37	0.78	1.32	1.97	2.75	5.86	24.5	74.7	115	134	152	169	184	196	207	215	221	224
-40	0.19	0.39	0.85	1.47	2.22	3.69	9.62	54.5	109	134	156	177	196	211	224	235	243	249	252
-35	0.19	0.42	0.93	1.61	2.47	4.89	27.4	85.5	128	154	178	201	220	236	249	261	269	275	278
-30	0.19	0.44	1.00	1.74	2.69	7.24	47.9	112	142	171	199	222	241	259	272	284	294	300	303
-25	0.19	0.46	1.05	1.85	3.08	9.45	72.0	125	155	187	216	239	260	277	294	307	317	324	328
-20	0.19	0.47	1.10	1.94	3.46	19.2	91.1	135	168	201	230	253	275	296	312	326	339	346	348
-15	0.19	0.48	1.13	2.01	3.73	26.9	103	143	177	212	240	266	289	310	327	343	360	378	385
-10	0.19	0.49	1.15	2.05	3.90	32.4	111	149	185	220	248	274	299	320	340	360	394	432	451
-5	0.19	0.49	1.16	2.08	3.98	35.7	116	153	190	226	253	279	305	328	349	378	431	492	528
0	0.19	0.49	1.16	2.07	3.95	36.8	118	154	193	229	256	283	309	333	355	389	450	531	580
5	0.19	0.49	1.16	2.06	3.86	35.9	116	153	192	227	255	282	308	332	354	384	437	510	556
10	0.19	0.48	1.14	2.02	3.69	32.7	111	149	187	223	251	278	303	326	347	368	404	450	484
15	0.19	0.48	1.11	1.96	3.45	27.2	101	144	181	217	246	271	294	316	335	352	369	391	407
20	0.19	0.46	1.08	1.87	3.15	19.3	87.8	137	173	208	237	260	281	302	321	336	347	356	362
25	0.19	0.45	1.03	1.78	2.80	9.16	73.2	129	163	196	226	248	268	286	303	319	329	335	337
30	0.19	0.43	0.97	1.66	2.48	6.74	51.7	119	151	183	212	235	253	269	283	296	306	313	316
35	0.19	0.41	0.90	1.53	2.27	4.17	29.7	98.3	137	167	194	218	236	250	263	272	281	287	289
40	0.19	0.38	0.83	1.40	2.05	3.12	9.17	62.5	120	149	174	197	215	229	240	249	256	261	262
45	0.19	0.36	0.75	1.25	1.83	2.46	5.06	27.0	83.8	129	152	172	190	205	216	224	230	234	235
50	0.19	0.33	0.68	1.10	1.59	2.13	2.96	7.01	33.5	85.4	124	144	160	175	185	193	199	203	205
55	0.19	0.29	0.59	0.95	1.36	1.81	2.25	3.04	7.02	28.2	65.3	103	128	142	151	158	163	166	168
60	0.19	0.26	0.50	0.80	1.13	1.49	1.84	2.19	2.79	4.91	9.52	32.0	57.7	85.0	104	117	125	129	131
65	0.19	0.25	0.43	0.66	0.91	1.18	1.46	1.72	1.97	2.24	2.90	4.09	7.23	10.3	22.7	32.5	39.9	44.0	45.1
70	0.19	0.24	0.36	0.51	0.71	0.91	1.10	1.29	1.45	1.66	1.89	2.12	2.35	2.74	3.19	3.65	4.07	4.24	4.29
75	0.19	0.23	0.28	0.39	0.50	0.65	0.79	0.90	1.00	1.14	1.29	1.42	1.56	1.70	1.84	1.98	2.12	2.14	2.12
80	0.19	0.21	0.25	0.27	0.34	0.42	0.50	0.57	0.62	0.70	0.78	0.85	0.91	0.99	1.06	1.14	1.21	1.22	1.21
85	0.19	0.20	0.22	0.23	0.23	0.25	0.28	0.30	0.31	0.36	0.40	0.41	0.42	0.43	0.44	0.38	0.31	0.41	0.52
90	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.20

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γ Range: 0 - 90DEG
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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: 96RAY10/W	TYPE: 96RAY10/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	0.25	0.25	0.24	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.23	0.22	0.22	0.23	
-85	0.54	0.56	0.55	0.52	0.52	0.52	0.49	0.45	0.43	0.41	0.37	0.32	0.32	0.31	0.28	0.25	0.24	0.23	
-80	1.20	1.19	1.16	1.13	1.10	1.06	0.99	0.90	0.84	0.77	0.67	0.57	0.51	0.43	0.33	0.29	0.26	0.23	
-75	2.05	2.03	2.00	1.95	1.90	1.81	1.68	1.54	1.38	1.23	1.06	0.89	0.75	0.61	0.46	0.32	0.28	0.23	
-70	3.60	3.46	3.35	3.19	3.01	2.81	2.59	2.34	2.07	1.79	1.53	1.27	1.04	0.82	0.59	0.40	0.29	0.23	
-65	29.6	27.2	23.0	16.8	8.74	6.62	4.26	3.38	2.89	2.47	2.07	1.69	1.36	1.05	0.74	0.49	0.31	0.23	
-60	115	111	103	89.3	67.7	44.9	25.4	9.17	5.22	3.31	2.67	2.16	1.71	1.28	0.89	0.56	0.33	0.23	
-55	152	150	146	140	132	121	93.1	54.9	23.8	7.36	3.46	2.67	2.08	1.53	1.05	0.66	0.36	0.23	
-50	190	188	182	175	165	153	140	119	74.0	29.2	7.52	3.31	2.45	1.78	1.21	0.74	0.40	0.23	
-45	225	222	217	208	197	183	168	149	129	77.1	24.8	5.45	2.82	2.03	1.36	0.83	0.43	0.23	
-40	253	251	246	237	225	211	193	174	151	121	58.3	10.1	3.36	2.27	1.51	0.91	0.46	0.23	
-35	278	275	270	260	248	234	216	196	172	144	96.8	28.7	4.45	2.51	1.65	0.99	0.49	0.23	
-30	302	298	290	280	268	252	235	214	190	161	127	52.1	7.64	2.72	1.79	1.06	0.51	0.23	
-25	326	319	311	299	283	268	249	228	205	175	142	79.7	10.7	3.02	1.91	1.12	0.53	0.23	
-20	346	340	329	316	300	280	261	240	216	187	153	101	21.5	3.32	2.01	1.17	0.55	0.23	
-15	378	362	348	330	313	292	270	248	224	196	162	116	30.1	3.56	2.09	1.21	0.56	0.23	
-10	437	402	369	345	323	301	277	255	231	202	168	126	36.6	3.75	2.14	1.23	0.57	0.23	
-5	510	452	394	357	332	308	281	259	234	205	172	133	40.7	3.87	2.18	1.25	0.57	0.23	
0	557	487	411	364	336	310	283	261	235	206	173	135	42.4	3.92	2.18	1.26	0.58	0.23	
5	541	479	408	363	333	307	281	259	233	205	172	133	41.5	3.89	2.16	1.24	0.57	0.23	
10	478	435	386	356	327	301	278	254	229	201	169	127	37.9	3.79	2.11	1.22	0.56	0.23	
15	406	386	365	339	316	292	271	248	224	196	163	117	31.8	3.59	2.04	1.18	0.55	0.23	
20	363	357	340	323	302	282	262	240	215	188	155	103	23.0	3.31	1.94	1.14	0.54	0.23	
25	336	331	320	304	287	269	250	229	205	178	146	83.6	11.7	2.95	1.83	1.08	0.52	0.23	
30	315	307	297	284	270	254	236	216	193	165	132	58.1	8.42	2.57	1.69	1.02	0.50	0.23	
35	287	282	274	264	251	237	220	200	177	149	104	34.3	4.78	2.34	1.55	0.94	0.47	0.23	
40	261	257	250	242	231	218	201	181	157	128	67.3	12.1	3.37	2.08	1.41	0.86	0.45	0.23	
45	234	232	227	219	209	195	178	158	136	87.4	31.4	6.22	2.50	1.83	1.25	0.78	0.42	0.23	
50	205	203	199	192	181	166	150	129	89.2	38.5	9.17	3.23	2.12	1.56	1.09	0.70	0.38	0.23	
55	169	168	165	158	148	134	107	70.0	32.5	9.25	3.45	2.26	1.76	1.33	0.94	0.61	0.35	0.23	
60	132	129	121	109	89.7	62.6	36.5	12.5	6.24	3.09	2.18	1.80	1.42	1.09	0.79	0.52	0.31	0.23	
65	45.3	42.2	35.1	25.2	12.3	8.66	4.62	3.04	2.13	1.89	1.66	1.39	1.12	0.87	0.65	0.44	0.30	0.23	
70	4.12	3.83	3.40	2.90	2.37	1.90	1.79	1.66	1.52	1.36	1.21	1.03	0.85	0.67	0.50	0.37	0.28	0.23	
75	1.94	1.74	1.60	1.46	1.36	1.25	1.19	1.12	1.02	0.92	0.84	0.73	0.61	0.48	0.39	0.29	0.26	0.23	
80	1.11	1.00	0.94	0.87	0.81	0.74	0.72	0.68	0.63	0.57	0.53	0.47	0.41	0.33	0.27	0.25	0.24	0.23	
85	0.49	0.45	0.44	0.42	0.40	0.37	0.37	0.37	0.34	0.31	0.30	0.28	0.25	0.23	0.22	0.21	0.22	0.23	
90	0.20	0.20	0.19	0.19	0.19	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.20	0.23	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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: