

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3009.0 cd per klm.
(Luminaire orientation as tested.)	-180.0 degrees vertical
	-90.0 degrees horizontal

Beam Spread	At 10% of Imax	284.4V x 33.5H
	At 50% of Imax	282.5V x 11.5H
	At 90% of Imax	280.6V x 4.2H

Beam Flux	Total	962.3 lumens per klm.
	To 10% of Imax	392.9 lumens per klm.
	To 50% of Imax	0.0 lumens per klm.
	To 90% of Imax	0.0 lumens per klm.

Upward LOR	49.0 %
Downward LOR	47.2 %

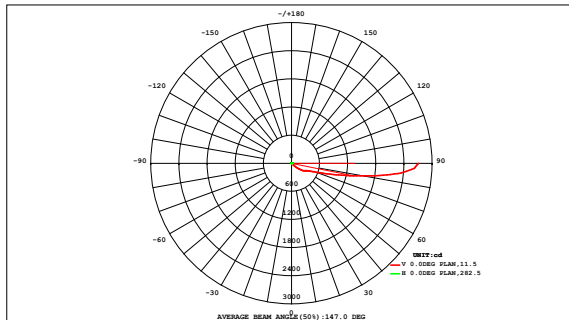
Luminaire Efficiency (Light Output Ratio)	96.3 %
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C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 25 January 2023

γ Range: 0 - 140DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.340m [K=1.0000]
Remarks:

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF328WW/1BL	Imax (cd)	2708
NOMINAL POWER (W)	10	AVAILABILITY (%)	81.1
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	729.7
NOMINAL FLUX (lm)	900	LOR (%)	96.3
LAMPS INSIDE	1	TOTAL FLUX (lm)	866.4
TEST VOLTAGE (V)	230	θ @50% (H,V)	11,282DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	5.88	8.06	5.25	3.95	0.77	0.22	0.09	0.03	0.00	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	24.5	20.6
90	5.83	7.95	5.19	3.94	0.80	0.23	0.09	0.03	0.00	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	24.4	20.5
80	5.78	7.82	5.13	3.95	0.82	0.25	0.10	0.03	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	24.2	20.3
70	5.72	7.69	5.08	3.95	0.85	0.26	0.10	0.04	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	24.0	19.9
60	5.68	7.58	5.06	3.95	0.89	0.27	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.9	19.7
50	5.64	7.47	5.06	3.95	0.91	0.28	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.04	0.07	0.07	0.05	0.02	23.7	19.6
40	5.60	7.38	5.08	3.95	0.93	0.28	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.04	0.07	0.07	0.05	0.02	23.7	19.5
30	5.55	7.33	5.09	3.96	0.91	0.27	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.04	0.07	0.07	0.05	0.02	23.5	19.4
20	5.50	7.26	5.11	4.00	0.90	0.27	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.04	0.06	0.07	0.05	0.02	23.5	19.6
10	5.46	7.17	5.09	4.01	0.89	0.25	0.11	0.04	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.3	19.5
0	5.42	7.15	5.08	4.03	0.90	0.24	0.10	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.3	19.6
-10	5.40	7.17	5.09	4.05	0.88	0.23	0.10	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.3	19.6
-20	5.40	7.13	5.08	4.05	0.88	0.23	0.10	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.2	19.5
-30	5.40	7.14	5.08	4.04	0.88	0.22	0.10	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.2	19.5
-40	5.41	7.16	5.08	4.02	0.87	0.23	0.10	0.05	0.01	0.00	0.00	0.01	0.03	0.05	0.07	0.07	0.05	0.02	23.2	19.6
-50	5.43	7.20	5.07	4.01	0.87	0.23	0.10	0.05	0.01	0.00	0.00	0.01	0.03	0.05	0.07	0.07	0.05	0.02	23.3	19.5
-60	5.46	7.26	5.07	3.99	0.88	0.25	0.11	0.05	0.01	0.00	0.00	0.01	0.03	0.05	0.07	0.07	0.05	0.02	23.4	19.6
-70	5.50	7.32	5.07	3.99	0.89	0.26	0.12	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.5	19.3
-80	5.50	7.32	5.07	3.99	0.89	0.26	0.12	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.5	19.3
-90	5.50	7.32	5.07	3.99	0.89	0.26	0.12	0.05	0.01	0.00	0.00	0.01	0.02	0.05	0.07	0.07	0.05	0.02	23.5	19.3
HORIZONTAL (DEG)																				
Φ t	100	133	91.7	71.8	15.7	4.47	1.87	0.76	0.16	0.02	0.06	0.20	0.43	0.83	1.22	1.22	0.85	0.30	425	---
Φ a	100	133	91.7	29.8	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	---	355

one-half-peak spread: U:1.3,D:1.3 , L:11.4,R:11.6

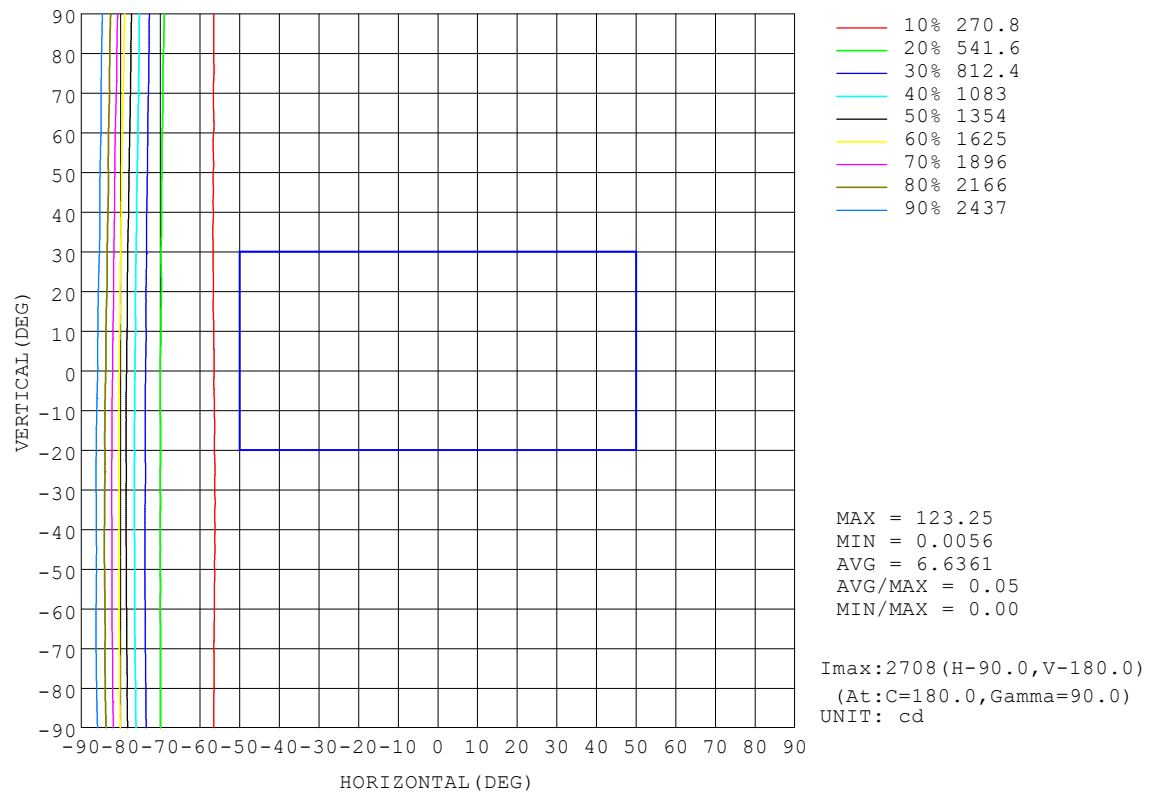
NEMA Beam Type: Type 3 x 7 (H x V)

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:25 January 2023

γ Range: 0 - 140DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.340m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

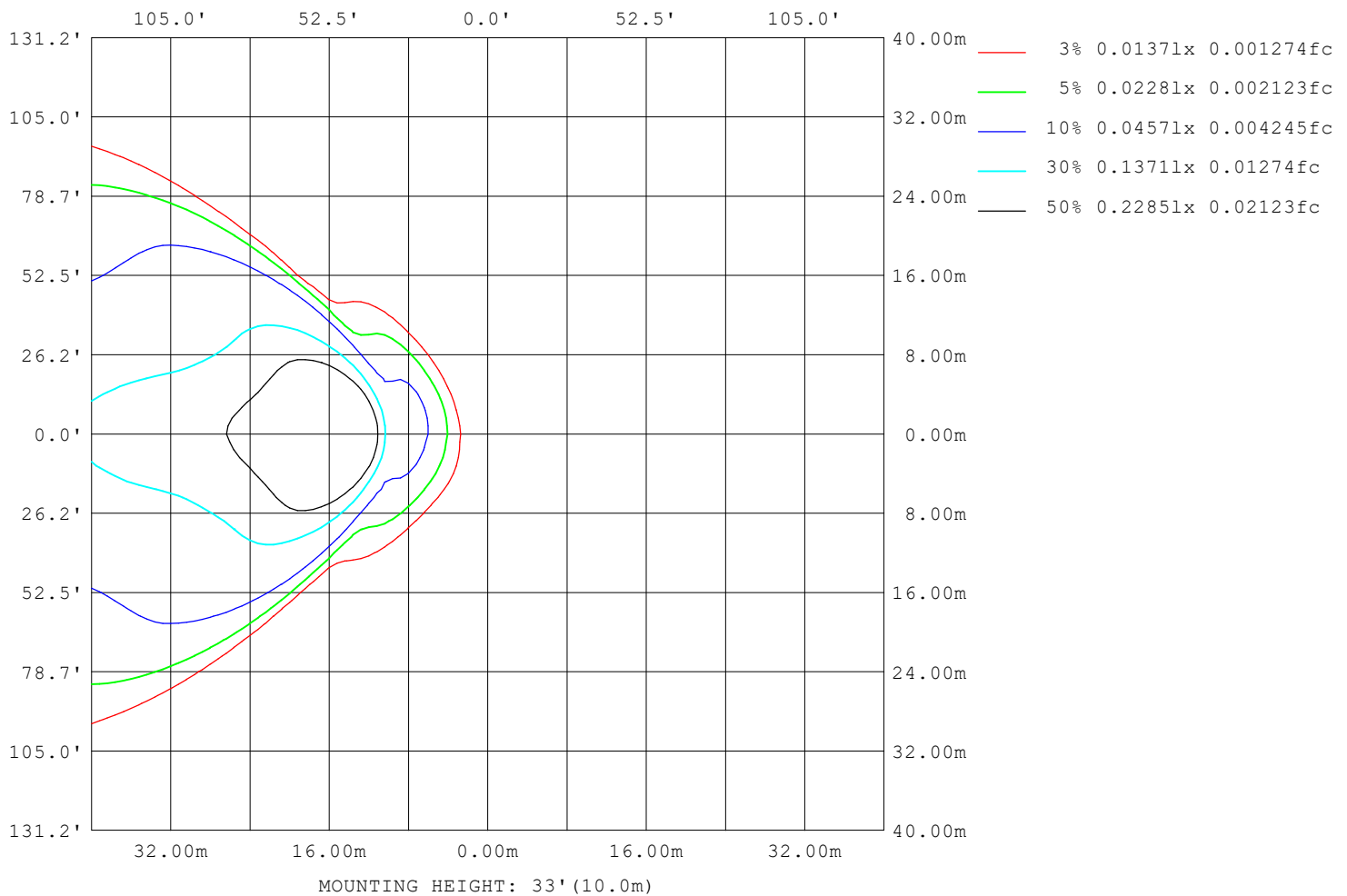


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 C Interval: 2.5DEG
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 Temperature: 25.3°C
 Operators:
 Test Date: 25 January 2023

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

ISOLUX DIAGRAM

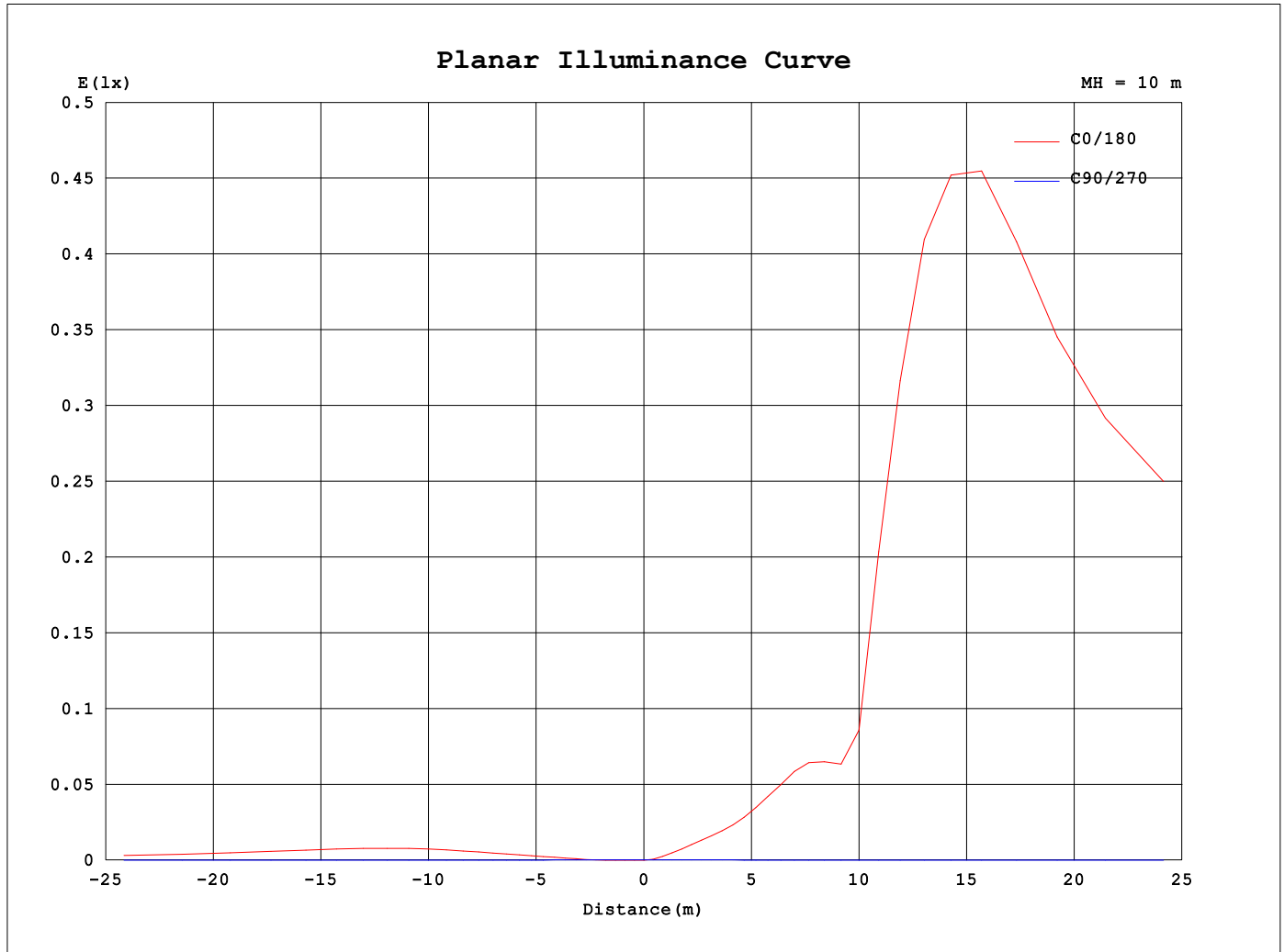
NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



C Range: 0 - 360DEG
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 Test Speed: HIGH
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 Test Date: 25 January 2023

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 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

Planar Illuminance Curve

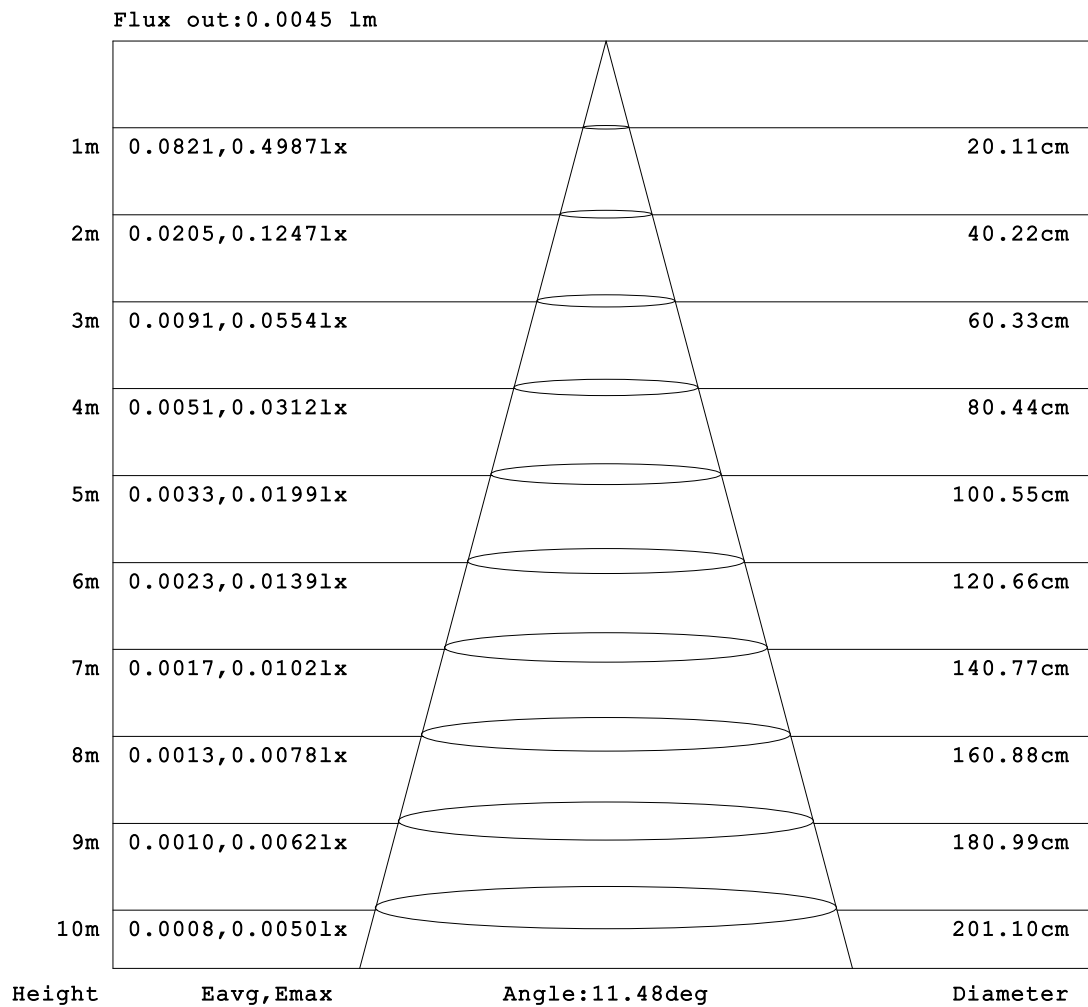


C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 25 January 2023

γ Range: 0 - 140DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.340m [K=1.0000]
 Remarks:

AAI Figure

NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	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: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:25 January 2023

γ Range: 0 - 140DEG
 γ Interval: 2.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.340m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	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	2708	2483	1768	1055	596	397	325	259	134	26.7	12.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-170	2708	2448	1737	1037	584	391	321	256	136	32.1	13.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-160	2708	2426	1714	1023	583	390	318	254	139	34.9	13.7	9.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00
-150	2708	2418	1699	1017	570	388	319	249	139	36.4	14.1	10.7	6.73	1.33	0.00	0.00	0.00	0.00	0.00
-140	2708	2389	1684	997	567	386	319	245	136	36.5	14.4	11.2	7.17	4.00	2.29	1.37	0.73	0.19	0.03
-130	2708	2376	1668	987	562	384	319	243	131	32.9	14.8	11.6	7.52	4.28	2.41	1.47	0.76	0.23	0.03
-120	2708	2380	1656	978	556	384	319	241	129	34.2	14.9	11.9	7.73	4.45	2.51	1.53	0.82	0.27	0.03
-110	2708	2355	1630	970	558	385	319	240	127	33.3	14.9	11.9	7.74	4.49	2.62	1.63	0.88	0.30	0.03
-100	2708	2345	1613	958	549	383	320	239	124	28.6	14.7	11.5	7.50	4.33	2.63	1.68	0.93	0.33	0.03
-90	2708	2351	1607	947	545	382	321	239	121	25.2	14.2	11.0	6.99	4.06	2.55	1.68	0.94	0.33	0.03
-80	2708	2320	1585	939	544	385	321	239	120	26.1	13.7	10.3	6.46	3.86	2.51	1.69	0.95	0.34	0.03
-70	2708	2305	1573	933	546	387	320	240	121	27.3	13.2	9.66	5.95	3.66	2.46	1.69	0.96	0.35	0.03
-60	2708	2305	1567	923	538	386	321	241	122	27.0	12.9	9.19	5.62	3.48	2.41	1.68	0.97	0.35	0.03
-50	2708	2286	1553	919	541	387	322	243	122	23.4	12.9	8.98	5.46	3.41	2.36	1.65	0.96	0.36	0.03
-40	2708	2284	1552	920	540	388	323	244	123	24.1	13.1	9.03	5.48	3.42	2.36	1.65	0.93	0.37	0.03
-30	2708	2300	1560	917	541	388	323	244	122	25.3	13.3	9.27	5.61	3.49	2.36	1.62	0.91	0.34	0.03
-20	2708	2301	1546	927	544	388	323	243	122	27.6	13.5	9.63	5.80	3.56	2.33	1.57	0.88	0.32	0.03
-10	2708	2319	1547	919	541	387	324	240	121	28.6	13.8	10.0	6.05	3.66	2.29	1.49	0.81	0.30	0.03
0	2708	2354	1568	926	541	387	326	240	119	24.3	14.4	10.7	6.50	3.82	2.34	1.48	0.79	0.27	0.01
10	2708	2355	1581	943	547	386	322	237	121	28.5	14.6	11.1	6.78	3.90	2.27	1.39	0.74	0.23	0.03
20	2708	2372	1599	947	556	386	322	236	121	29.4	14.7	11.4	6.89	3.90	2.23	1.34	0.70	0.22	0.03
30	2708	2403	1620	960	550	385	320	234	123	27.1	14.9	11.6	6.87	3.86	2.18	1.30	0.68	0.20	0.03
40	2708	2398	1642	969	556	382	320	235	121	25.4	14.7	11.4	6.76	3.77	2.10	1.23	0.64	0.15	0.03
50	2708	2410	1659	986	561	382	318	236	119	22.7	14.3	10.9	6.54	3.63	2.02	1.20	0.58	0.15	0.03
60	2708	2441	1684	1004	566	384	318	237	118	25.2	13.8	10.3	6.26	3.46	1.91	1.14	0.56	0.13	0.03
70	2708	2442	1718	1022	579	390	321	236	116	23.4	13.2	9.73	5.93	3.28	1.85	1.10	0.52	0.11	0.03
80	2708	2459	1746	1033	584	393	322	237	114	21.9	12.5	9.13	5.56	3.13	1.78	1.06	0.48	0.09	0.03
90	2708	2488	1779	1045	592	396	324	239	112	17.3	12.0	8.59	5.23	2.97	1.73	1.03	0.46	0.08	0.03
100	2708	2475	1781	1058	600	400	323	239	112	21.1	11.4	8.07	4.99	2.88	1.70	1.01	0.45	0.08	0.03
110	2708	2473	1786	1069	608	403	323	241	114	20.1	11.0	7.71	4.80	2.80	1.68	1.00	0.45	0.08	0.03
120	2708	2483	1794	1070	603	403	322	244	116	21.2	10.7	7.42	4.60	2.70	1.66	1.00	0.45	0.09	0.03
130	2708	2465	1786	1072	609	404	323	247	118	18.5	10.7	7.27	4.49	2.67	1.65	0.99	0.45	0.10	0.03
140	2708	2463	1785	1075	608	404	323	249	121	19.6	10.8	7.31	4.51	2.68	1.66	1.02	0.46	0.10	0.03
150	2708	2476	1792	1067	611	405	322	251	123	22.0	11.1	7.56	4.62	0.95	0.00	0.00	0.00	0.00	0.00
160	2708	2466	1768	1075	611	405	323	253	126	26.0	11.5	7.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00
170	2708	2468	1759	1057	605	403	324	253	129	28.8	12.1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	2708	2483	1768	1055	596	397	325	259	134	26.7	12.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:25 January 2023

γ Range: 0 - 140DEG

γ Interval: 2.5DEG

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

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 96GRF328WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 160 x 90	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	
-180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.28	1.78	2.28	2.74	3.23	3.86	4.56	5.24	5.83	6.24	
-170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.02	1.47	2.06	2.70	3.24	3.70	4.18	4.72	5.29	5.84	6.24	
-160	0.00	0.00	0.00	0.00	0.00	0.00	0.71	1.12	1.63	2.31	3.05	3.69	4.16	4.52	4.93	5.38	5.86	6.24	
-150	0.00	0.00	0.00	0.00	0.13	0.56	0.84	1.22	1.77	2.50	3.31	4.01	4.51	4.86	5.13	5.50	5.89	6.24	
-140	0.04	0.06	0.11	0.23	0.37	0.57	0.86	1.28	1.88	2.65	3.48	4.23	4.76	5.10	5.35	5.61	5.94	6.24	
-130	0.04	0.05	0.12	0.23	0.38	0.59	0.88	1.34	1.99	2.78	3.62	4.37	4.94	5.30	5.52	5.72	5.99	6.24	
-120	0.03	0.05	0.11	0.22	0.39	0.61	0.92	1.40	2.08	2.90	3.74	4.48	5.05	5.42	5.66	5.84	6.05	6.24	
-110	0.03	0.05	0.12	0.24	0.40	0.62	0.94	1.43	2.14	2.99	3.84	4.58	5.14	5.53	5.78	5.95	6.10	6.24	
-100	0.03	0.05	0.11	0.24	0.41	0.64	0.97	1.47	2.20	3.07	3.93	4.67	5.23	5.63	5.89	6.04	6.16	6.24	
-90	0.03	0.05	0.11	0.23	0.39	0.62	0.96	1.47	2.21	3.10	3.98	4.72	5.28	5.70	5.97	6.12	6.21	6.24	
-80	0.03	0.05	0.11	0.22	0.40	0.63	0.97	1.49	2.24	3.13	4.01	4.74	5.30	5.71	6.01	6.18	6.25	6.24	
-70	0.03	0.04	0.11	0.24	0.41	0.65	0.99	1.52	2.27	3.16	4.04	4.78	5.34	5.76	6.04	6.22	6.28	6.24	
-60	0.03	0.05	0.13	0.25	0.41	0.65	0.99	1.52	2.27	3.17	4.05	4.80	5.37	5.81	6.09	6.25	6.31	6.24	
-50	0.04	0.06	0.11	0.23	0.41	0.65	1.00	1.52	2.28	3.19	4.07	4.80	5.37	5.81	6.12	6.28	6.32	6.24	
-40	0.04	0.04	0.13	0.23	0.40	0.64	0.99	1.52	2.27	3.17	4.05	4.81	5.39	5.83	6.13	6.30	6.33	6.24	
-30	0.03	0.05	0.12	0.23	0.40	0.62	0.96	1.49	2.24	3.15	4.04	4.80	5.39	5.83	6.16	6.31	6.35	6.24	
-20	0.03	0.05	0.11	0.22	0.38	0.60	0.94	1.47	2.20	3.10	4.01	4.79	5.38	5.84	6.14	6.33	6.36	6.24	
-10	0.03	0.03	0.10	0.20	0.36	0.60	0.92	1.43	2.15	3.04	3.97	4.76	5.37	5.83	6.16	6.34	6.36	6.24	
0	0.01	0.01	0.06	0.18	0.34	0.56	0.87	1.37	2.09	2.99	3.93	4.74	5.36	5.81	6.12	6.31	6.36	6.24	
10	0.02	0.04	0.09	0.21	0.37	0.57	0.87	1.31	1.97	2.82	3.75	4.60	5.26	5.74	6.05	6.27	6.34	6.24	
20	0.04	0.04	0.10	0.20	0.37	0.59	0.89	1.33	2.01	2.87	3.80	4.63	5.28	5.74	6.09	6.26	6.32	6.24	
30	0.04	0.06	0.11	0.23	0.37	0.60	0.90	1.37	2.04	2.92	3.84	4.66	5.29	5.77	6.07	6.27	6.30	6.24	
40	0.03	0.07	0.11	0.25	0.40	0.60	0.91	1.37	2.07	2.95	3.87	4.69	5.29	5.76	6.09	6.26	6.29	6.24	
50	0.03	0.06	0.14	0.26	0.41	0.62	0.92	1.40	2.10	2.97	3.88	4.68	5.31	5.76	6.07	6.24	6.28	6.24	
60	0.03	0.06	0.12	0.24	0.41	0.64	0.95	1.43	2.13	3.00	3.90	4.68	5.29	5.74	6.05	6.22	6.27	6.24	
70	0.03	0.06	0.13	0.25	0.42	0.64	0.95	1.44	2.14	3.01	3.90	4.68	5.28	5.73	6.02	6.19	6.24	6.24	
80	0.03	0.05	0.12	0.24	0.42	0.65	0.97	1.46	2.16	3.02	3.91	4.69	5.27	5.69	5.98	6.15	6.21	6.24	
90	0.03	0.05	0.12	0.24	0.41	0.63	0.95	1.44	2.13	2.99	3.88	4.65	5.23	5.65	5.93	6.10	6.18	6.24	
100	0.03	0.05	0.12	0.23	0.41	0.63	0.95	1.44	2.13	2.98	3.85	4.61	5.19	5.60	5.87	6.04	6.13	6.24	
110	0.03	0.05	0.12	0.25	0.42	0.64	0.96	1.45	2.13	2.96	3.81	4.57	5.14	5.54	5.80	5.97	6.10	6.24	
120	0.03	0.06	0.14	0.26	0.42	0.64	0.95	1.42	2.09	2.90	3.75	4.49	5.07	5.47	5.71	5.89	6.06	6.24	
130	0.03	0.06	0.11	0.23	0.41	0.64	0.95	1.41	2.06	2.84	3.67	4.40	4.95	5.32	5.57	5.78	6.01	6.24	
140	0.03	0.05	0.13	0.23	0.39	0.62	0.93	1.37	1.98	2.74	3.56	4.29	4.82	5.17	5.40	5.66	5.96	6.24	
150	0.00	0.00	0.00	0.00	0.14	0.59	0.88	1.29	1.88	2.63	3.42	4.11	4.61	4.93	5.23	5.53	5.92	6.24	
160	0.00	0.00	0.00	0.00	0.00	0.00	0.74	1.22	1.75	2.46	3.22	3.84	4.29	4.65	5.00	5.43	5.88	6.24	
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.11	1.59	2.26	2.92	3.44	3.86	4.30	4.80	5.33	5.85	6.24	
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.88	1.28	1.78	2.28	2.74	3.23	3.86	4.56	5.24	5.83	6.24	

C Range: 0 - 360DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:25 January 2023

γ Range: 0 - 140DEG

γ Interval: 2.5DEG

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

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: