

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	3209.1 cd per klm.
(Luminaire orientation as tested.)	-180.0 degrees vertical
	-90.0 degrees horizontal

Beam Spread	At 10% of Imax	360.0V x 22.5H
	At 50% of Imax	359.9V x 9.7H
	At 90% of Imax	359.5V x 3.2H

Beam Flux	Total	804.0 lumens per klm.
	To 10% of Imax	740.3 lumens per klm.
	To 50% of Imax	306.5 lumens per klm.
	To 90% of Imax	199.9 lumens per klm.

Upward LOR	40.3 %
Downward LOR	40.1 %

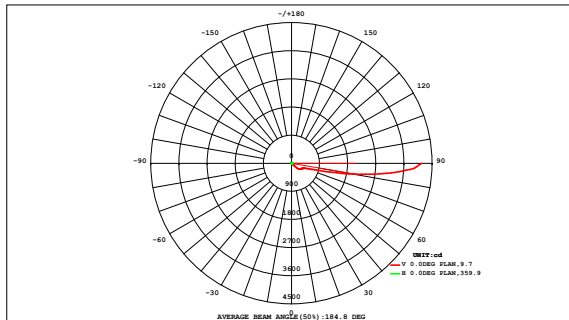
Luminaire Efficiency (Light Output Ratio)	80.4 %
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C Range: 0 - 180DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 26 January 2023

γ Range: 0 - 180DEG
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: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	96GRF29WW/1BL	Imax (cd)	4172
NOMINAL POWER (W)	15	AVAILABILITY (%)	46.0
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	597.4
NOMINAL FLUX (lm)	1300	LOR (%)	80.4
LAMPS INSIDE	1	TOTAL FLUX (lm)	1046
TEST VOLTAGE (V)	230	θ @50% (H,V)	10,360DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	7.88	7.63	5.09	5.78	2.39	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	16.6
90	7.88	7.63	5.09	5.78	2.39	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	16.6
80	7.87	7.68	5.08	5.76	2.35	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	17.0
70	7.86	7.69	5.08	5.73	2.30	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.3	16.9
60	7.84	7.66	5.09	5.72	2.26	0.21	0.08	0.03	0.01	0.00	0.01	0.02	0.03	0.06	0.08	0.08	0.05	0.02	29.2	17.0
50	7.80	7.60	5.10	5.70	2.21	0.21	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.06	0.08	0.08	0.05	0.02	29.1	16.9
40	7.75	7.52	5.10	5.68	2.17	0.20	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.9	16.7
30	7.67	7.46	5.10	5.67	2.14	0.20	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.7	16.6
20	7.60	7.36	5.09	5.66	2.10	0.19	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.5	16.4
10	7.59	7.30	5.09	5.64	2.06	0.19	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.3	16.2
0	7.59	7.30	5.09	5.64	2.06	0.19	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.3	16.2
-10	7.60	7.36	5.09	5.66	2.10	0.19	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.5	16.4
-20	7.67	7.46	5.10	5.67	2.14	0.20	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.7	16.6
-30	7.75	7.52	5.10	5.68	2.17	0.20	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	28.9	16.7
-40	7.80	7.60	5.10	5.70	2.21	0.21	0.07	0.03	0.01	0.00	0.01	0.02	0.03	0.06	0.08	0.08	0.05	0.02	29.1	16.9
-50	7.84	7.66	5.09	5.72	2.26	0.21	0.08	0.03	0.01	0.00	0.01	0.02	0.03	0.06	0.08	0.08	0.05	0.02	29.2	17.0
-60	7.86	7.69	5.08	5.73	2.30	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.3	16.9
-70	7.87	7.68	5.08	5.76	2.35	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	17.0
-80	7.88	7.63	5.09	5.78	2.39	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	16.6
-90	7.88	7.63	5.09	5.78	2.39	0.21	0.08	0.04	0.01	0.00	0.01	0.02	0.03	0.05	0.08	0.08	0.05	0.02	29.4	16.6
HORIZONTAL (DEG)																				
Φ t	140	136	91.6	103	39.9	3.65	1.35	0.63	0.16	0.02	0.11	0.29	0.54	0.98	1.45	1.41	0.98	0.34	522	---
Φ a	140	136	25.3	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	0.00	---	301

one-half-peak spread: U:0.9,D:0.8 , L:9.6,R:9.8

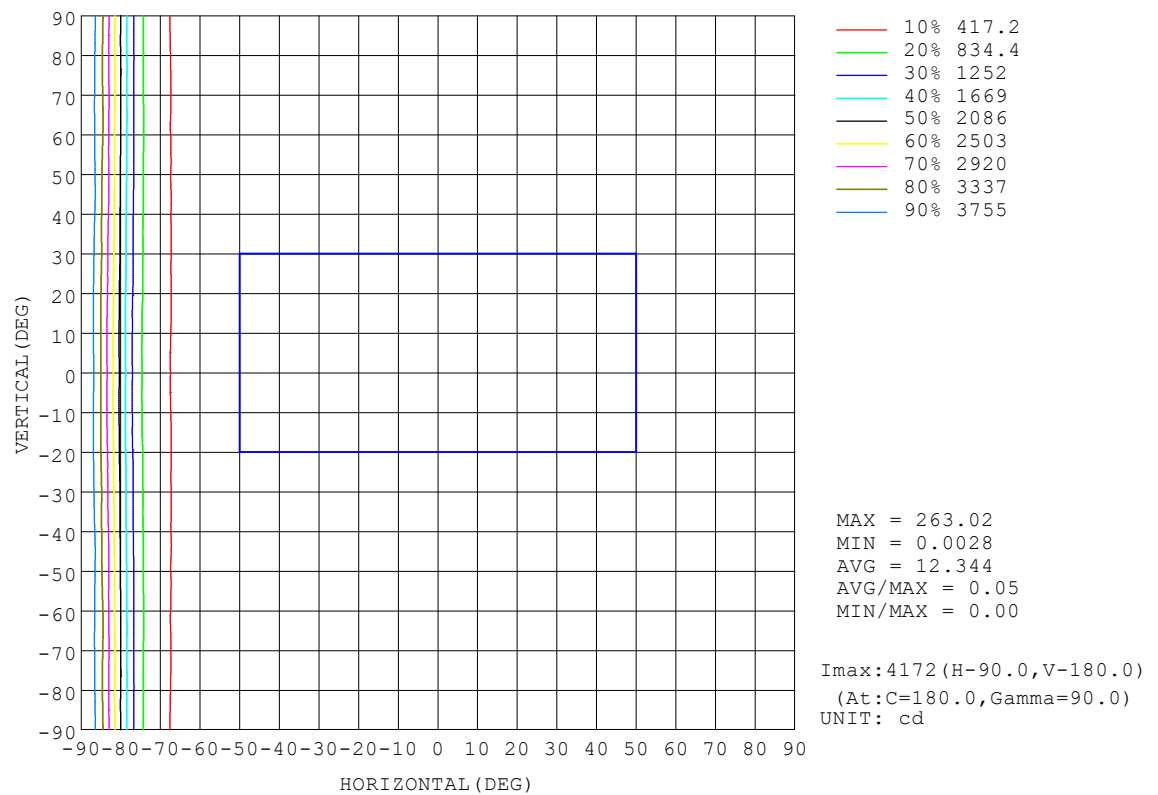
NEMA Beam Type: Type 2 x 7 (H x V)

C Range: 0 - 180DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 January 2023

γ Range: 0 - 180DEG
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: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:

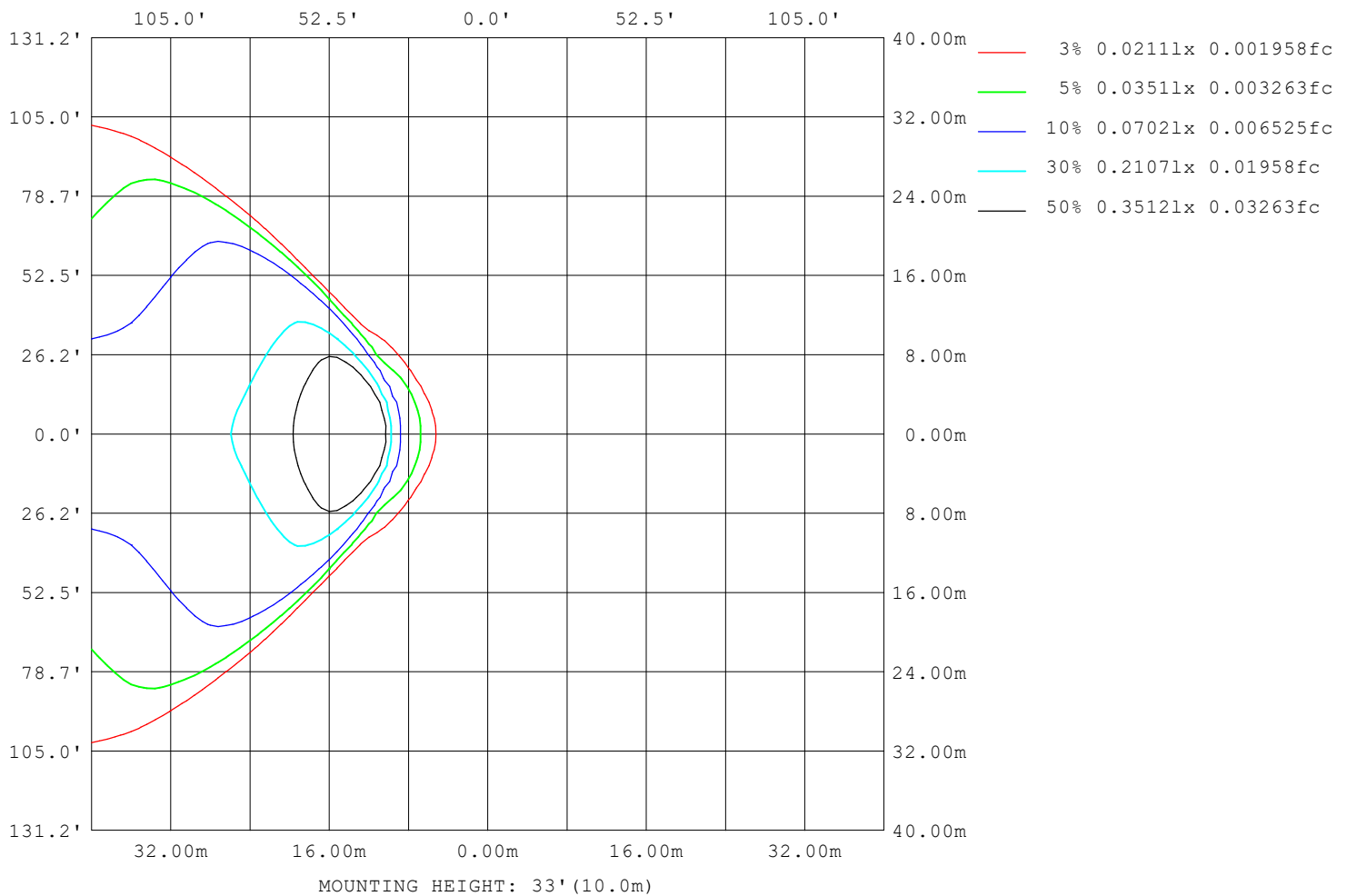


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ISOLUX DIAGRAM

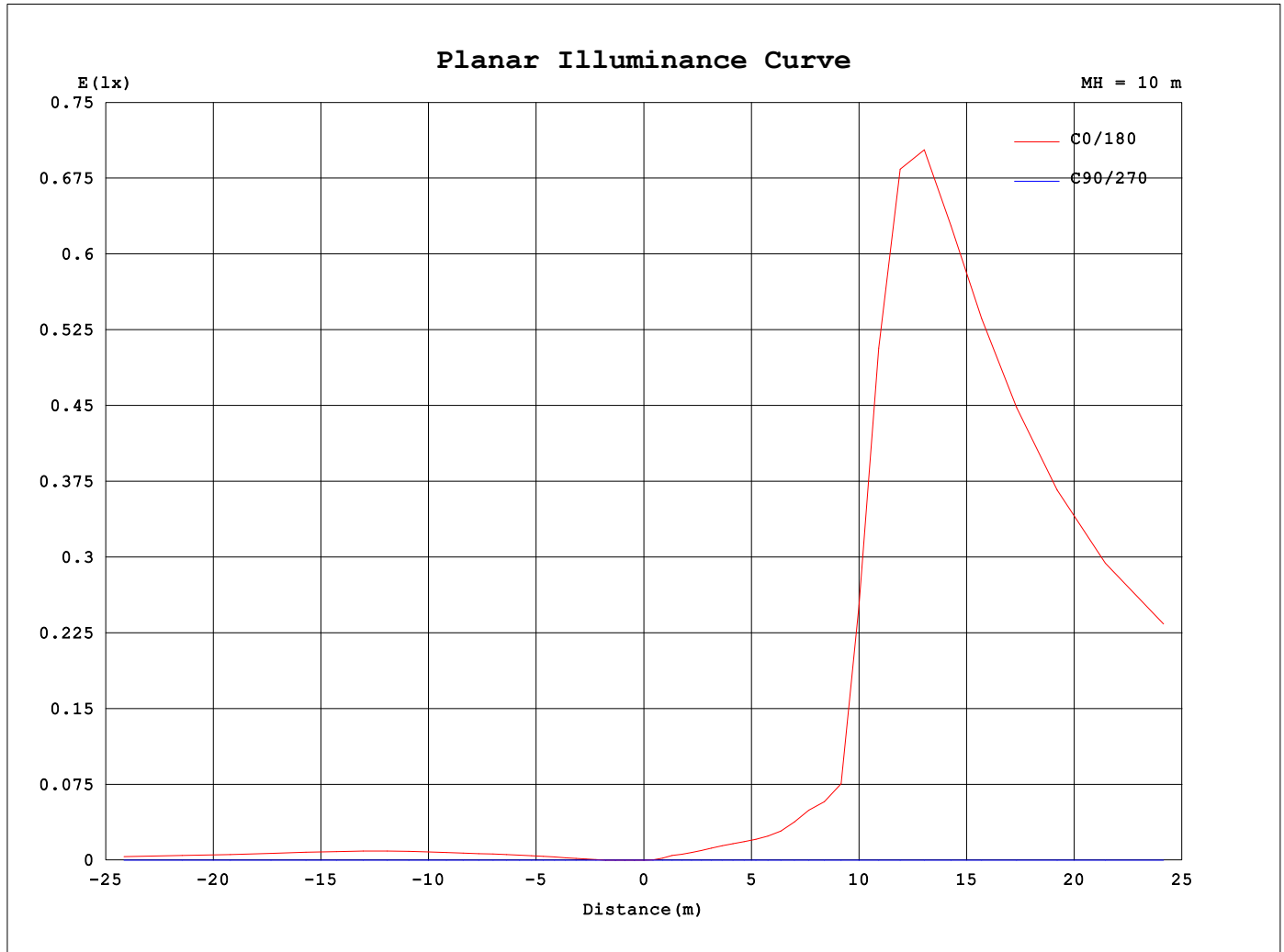
NAME: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: Circle	Shielding Angle:



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 Remarks:

Planar Illuminance Curve

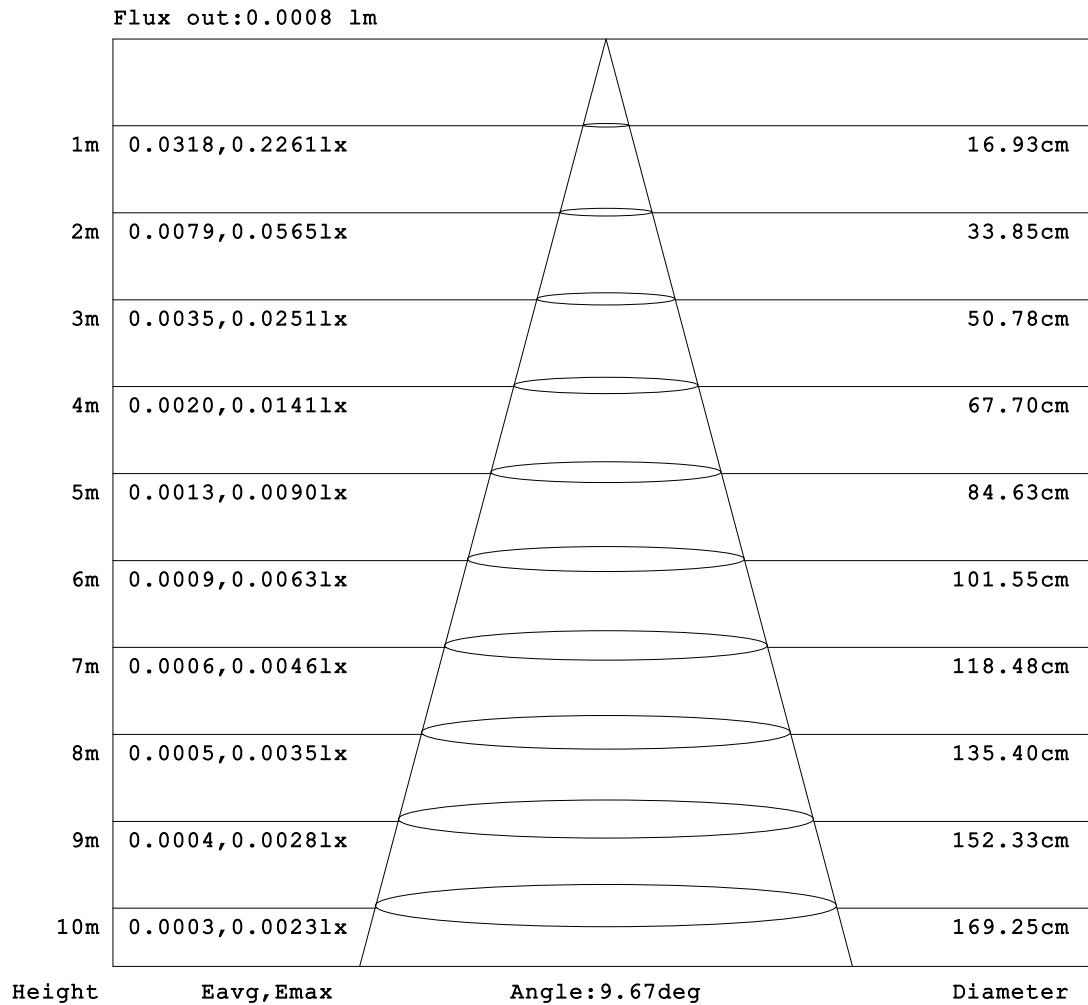


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 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 26 January 2023

γ Range: 0 - 180DEG
 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: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	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 - 180DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 26 January 2023

γ Range: 0 - 180DEG
 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: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	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	4172	3267	1874	851	482	401	371	345	277	92.9	15.7	8.01	4.38	3.03	2.16	1.42	0.84	0.29	0.00
-170	4172	3257	1919	882	487	401	371	344	275	112	16.6	8.14	4.41	3.03	2.15	1.40	0.84	0.30	0.02
-160	4172	3281	1935	928	491	399	369	343	277	99.7	16.6	8.10	4.35	3.00	2.13	1.40	0.83	0.33	0.02
-150	4172	3334	1945	898	485	398	368	343	278	100	15.8	7.99	4.30	2.98	2.14	1.40	0.86	0.34	0.02
-140	4172	3326	1963	921	485	396	367	343	278	101	15.7	7.93	4.23	2.98	2.14	1.39	0.87	0.31	0.02
-130	4172	3347	1999	909	485	393	365	342	280	100	15.3	7.80	4.16	2.94	2.11	1.38	0.82	0.33	0.02
-120	4172	3398	2029	915	482	393	364	340	277	102	15.3	7.80	4.12	2.91	2.07	1.34	0.82	0.33	0.02
-110	4172	3395	2033	927	489	392	363	339	278	103	15.2	7.88	4.11	2.88	2.04	1.33	0.81	0.33	0.02
-100	4172	3418	2047	918	483	390	363	339	277	99.2	15.2	7.88	4.13	2.86	2.00	1.29	0.78	0.33	0.02
-90	4172	3472	2080	919	479	389	362	338	280	97.0	14.5	7.99	4.12	2.80	1.94	1.25	0.76	0.32	0.02
-80	4172	3438	2070	934	484	389	361	337	274	95.1	15.0	8.09	4.19	2.80	1.93	1.24	0.75	0.32	0.02
-70	4172	3432	2074	950	491	389	360	336	272	94.2	14.8	8.25	4.21	2.77	1.90	1.21	0.73	0.31	0.02
-60	4172	3449	2081	940	481	389	359	335	268	91.9	14.7	8.19	4.20	2.73	1.87	1.19	0.69	0.29	0.02
-50	4172	3402	2056	936	487	390	359	334	268	89.3	14.4	7.97	4.11	2.66	1.81	1.14	0.68	0.28	0.02
-40	4172	3379	2042	930	485	391	359	334	264	83.1	14.1	7.87	4.04	2.61	1.79	1.15	0.64	0.27	0.02
-30	4172	3382	2041	907	486	391	359	333	260	87.5	14.1	7.74	3.98	2.59	1.78	1.13	0.64	0.23	0.02
-20	4172	3337	1987	915	488	391	359	333	260	85.3	13.8	7.44	3.88	2.54	1.76	1.12	0.64	0.22	0.02
-10	4172	3321	1968	882	482	391	359	333	255	78.6	13.6	7.23	3.78	2.50	1.73	1.11	0.61	0.22	0.02
0	4172	3337	2001	879	478	390	359	333	258	71.4	12.9	6.90	3.68	2.46	1.72	1.09	0.63	0.21	0.00
10	4172	3321	1968	882	482	391	359	333	255	78.6	13.6	7.23	3.78	2.50	1.73	1.11	0.61	0.22	0.02
20	4172	3337	1987	915	488	391	359	333	260	85.3	13.8	7.44	3.88	2.54	1.76	1.12	0.64	0.22	0.02
30	4172	3382	2041	907	486	391	359	333	260	87.5	14.1	7.74	3.98	2.59	1.78	1.13	0.64	0.23	0.02
40	4172	3379	2042	930	485	391	359	334	264	83.1	14.1	7.87	4.04	2.61	1.79	1.15	0.64	0.27	0.02
50	4172	3402	2056	936	487	390	359	334	268	89.3	14.4	7.97	4.11	2.66	1.81	1.14	0.68	0.28	0.02
60	4172	3449	2081	940	481	389	359	335	268	91.9	14.7	8.19	4.20	2.73	1.87	1.19	0.69	0.29	0.02
70	4172	3432	2074	950	491	389	360	336	272	94.2	14.8	8.25	4.21	2.77	1.90	1.21	0.73	0.31	0.02
80	4172	3438	2070	934	484	389	361	337	274	95.1	15.0	8.09	4.19	2.80	1.93	1.24	0.75	0.32	0.02
90	4172	3472	2080	919	479	389	362	338	280	97.0	14.5	7.99	4.12	2.80	1.94	1.25	0.76	0.32	0.02
100	4172	3418	2047	918	483	390	363	339	277	99.2	15.2	7.88	4.13	2.86	2.00	1.29	0.78	0.33	0.02
110	4172	3395	2033	927	489	392	363	339	278	103	15.2	7.88	4.11	2.88	2.04	1.33	0.81	0.33	0.02
120	4172	3398	2029	915	482	393	364	340	277	102	15.3	7.80	4.12	2.91	2.07	1.34	0.82	0.33	0.02
130	4172	3347	1999	909	485	393	365	342	280	100	15.3	7.80	4.16	2.94	2.11	1.38	0.82	0.33	0.02
140	4172	3326	1963	921	485	396	367	343	278	101	15.7	7.93	4.23	2.98	2.14	1.39	0.87	0.31	0.02
150	4172	3334	1945	898	485	398	368	343	278	100	15.8	7.99	4.30	2.98	2.14	1.40	0.86	0.34	0.02
160	4172	3281	1935	928	491	399	369	343	277	99.7	16.6	8.10	4.35	3.00	2.13	1.40	0.83	0.33	0.02
170	4172	3257	1919	882	487	401	371	344	275	112	16.6	8.14	4.41	3.03	2.15	1.40	0.84	0.30	0.02
180	4172	3267	1874	851	482	401	371	345	277	92.9	15.7	8.01	4.38	3.03	2.16	1.42	0.84	0.29	0.03

C Range: 0 - 180DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:26 January 2023

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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: 96GRF29WW/1BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F 116 x 200	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	0.04	0.06	0.14	0.28	0.47	0.64	0.77	1.00	1.50	2.22	2.87	3.30	3.77	4.45	5.23	5.94	6.57	7.08	
-170	0.02	0.05	0.13	0.29	0.50	0.69	0.89	1.13	1.67	2.51	3.39	4.03	4.47	4.90	5.42	6.00	6.58	7.08	
-160	0.03	0.04	0.14	0.29	0.50	0.74	0.96	1.26	1.82	2.72	3.77	4.57	5.05	5.37	5.71	6.12	6.61	7.08	
-150	0.04	0.07	0.15	0.31	0.50	0.76	1.03	1.38	1.96	2.89	3.97	4.86	5.41	5.75	5.99	6.27	6.66	7.08	
-140	0.03	0.08	0.16	0.33	0.53	0.77	1.06	1.46	2.09	3.04	4.11	5.01	5.60	5.99	6.24	6.42	6.72	7.08	
-130	0.03	0.06	0.18	0.35	0.55	0.79	1.09	1.54	2.21	3.17	4.23	5.11	5.73	6.16	6.40	6.57	6.80	7.08	
-120	0.03	0.07	0.17	0.34	0.56	0.82	1.14	1.62	2.33	3.30	4.35	5.21	5.81	6.24	6.54	6.71	6.88	7.08	
-110	0.03	0.07	0.19	0.36	0.57	0.83	1.15	1.65	2.41	3.41	4.46	5.31	5.90	6.34	6.65	6.82	6.94	7.08	
-100	0.03	0.07	0.19	0.37	0.59	0.85	1.19	1.69	2.47	3.51	4.57	5.41	5.98	6.42	6.75	6.92	7.00	7.08	
-90	0.03	0.06	0.18	0.36	0.57	0.84	1.18	1.68	2.48	3.55	4.62	5.47	6.05	6.49	6.81	7.01	7.07	7.08	
-80	0.03	0.06	0.18	0.36	0.58	0.85	1.19	1.70	2.51	3.58	4.66	5.50	6.08	6.52	6.87	7.07	7.11	7.08	
-70	0.03	0.07	0.20	0.37	0.60	0.87	1.21	1.72	2.54	3.61	4.70	5.55	6.14	6.57	6.90	7.11	7.15	7.08	
-60	0.03	0.09	0.21	0.39	0.61	0.87	1.21	1.72	2.54	3.63	4.72	5.57	6.18	6.64	6.96	7.15	7.19	7.08	
-50	0.03	0.09	0.20	0.37	0.61	0.88	1.22	1.73	2.55	3.64	4.73	5.59	6.19	6.65	7.00	7.18	7.20	7.08	
-40	0.04	0.07	0.21	0.37	0.60	0.87	1.20	1.72	2.54	3.64	4.73	5.60	6.21	6.68	7.00	7.20	7.22	7.08	
-30	0.03	0.07	0.21	0.37	0.60	0.84	1.17	1.70	2.51	3.61	4.72	5.59	6.22	6.67	7.03	7.21	7.23	7.08	
-20	0.03	0.09	0.20	0.36	0.57	0.83	1.17	1.68	2.47	3.56	4.69	5.57	6.21	6.68	7.01	7.22	7.24	7.08	
-10	0.03	0.05	0.18	0.33	0.55	0.82	1.15	1.64	2.41	3.50	4.64	5.55	6.20	6.67	7.02	7.22	7.24	7.08	
0	0.00	0.03	0.14	0.31	0.53	0.79	1.11	1.59	2.36	3.45	4.62	5.54	6.19	6.64	6.98	7.19	7.23	7.08	
10	0.03	0.05	0.18	0.33	0.55	0.82	1.15	1.64	2.41	3.50	4.64	5.55	6.20	6.67	7.02	7.22	7.24	7.08	
20	0.03	0.09	0.20	0.36	0.57	0.83	1.17	1.68	2.47	3.56	4.69	5.57	6.21	6.68	7.01	7.22	7.24	7.08	
30	0.03	0.07	0.21	0.37	0.60	0.84	1.17	1.70	2.51	3.61	4.72	5.59	6.22	6.67	7.03	7.21	7.23	7.08	
40	0.04	0.07	0.21	0.37	0.60	0.87	1.20	1.72	2.54	3.64	4.73	5.60	6.21	6.68	7.00	7.20	7.22	7.08	
50	0.03	0.09	0.20	0.37	0.61	0.88	1.22	1.73	2.55	3.64	4.73	5.59	6.19	6.65	7.00	7.18	7.20	7.08	
60	0.03	0.09	0.21	0.39	0.61	0.87	1.21	1.72	2.54	3.63	4.72	5.57	6.18	6.64	6.96	7.15	7.19	7.08	
70	0.03	0.07	0.20	0.37	0.60	0.87	1.21	1.72	2.54	3.61	4.70	5.55	6.14	6.57	6.90	7.11	7.15	7.08	
80	0.03	0.06	0.18	0.36	0.58	0.85	1.19	1.70	2.51	3.58	4.66	5.50	6.08	6.52	6.87	7.07	7.11	7.08	
90	0.03	0.06	0.18	0.36	0.57	0.84	1.18	1.68	2.48	3.55	4.62	5.47	6.05	6.49	6.81	7.01	7.07	7.08	
100	0.03	0.07	0.19	0.37	0.59	0.85	1.19	1.69	2.47	3.51	4.57	5.41	5.98	6.42	6.75	6.92	7.00	7.08	
110	0.03	0.07	0.19	0.36	0.57	0.83	1.15	1.65	2.41	3.41	4.46	5.31	5.90	6.34	6.65	6.82	6.94	7.08	
120	0.03	0.07	0.17	0.34	0.56	0.82	1.14	1.62	2.33	3.30	4.35	5.21	5.81	6.24	6.54	6.71	6.88	7.08	
130	0.03	0.06	0.18	0.35	0.55	0.79	1.09	1.54	2.21	3.17	4.23	5.11	5.73	6.16	6.40	6.57	6.80	7.08	
140	0.03	0.08	0.16	0.33	0.53	0.77	1.06	1.46	2.09	3.04	4.11	5.01	5.60	5.99	6.24	6.42	6.72	7.08	
150	0.04	0.07	0.15	0.31	0.50	0.76	1.03	1.38	1.96	2.89	3.97	4.86	5.41	5.75	5.99	6.27	6.66	7.08	
160	0.03	0.04	0.14	0.29	0.50	0.74	0.96	1.26	1.82	2.72	3.77	4.57	5.05	5.37	5.71	6.12	6.61	7.08	
170	0.02	0.05	0.13	0.29	0.50	0.69	0.89	1.13	1.67	2.51	3.39	4.03	4.47	4.90	5.42	6.00	6.58	7.08	
180	0.04	0.06	0.14	0.28	0.47	0.64	0.77	1.00	1.50	2.22	2.87	3.30	3.77	4.45	5.23	5.94	6.57	7.08	

C Range: 0 - 180DEG

C Interval: 2.5DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:26 January 2023

γ Range: 0 - 180DEG

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: