

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1117.0 cd per klm.
(Luminaire orientation as tested.)	-1.5 degrees vertical
	10.0 degrees horizontal

Beam Spread	At 10% of Imax	70.0V x 89.2H
	At 50% of Imax	48.1V x 65.6H
	At 90% of Imax	13.8V x 42.9H

Beam Flux	Total	934.7 lumens per klm.
	To 10% of Imax	888.4 lumens per klm.
	To 50% of Imax	641.4 lumens per klm.
	To 90% of Imax	152.8 lumens per klm.

Upward LOR	0.0 %
Downward LOR	93.5 %

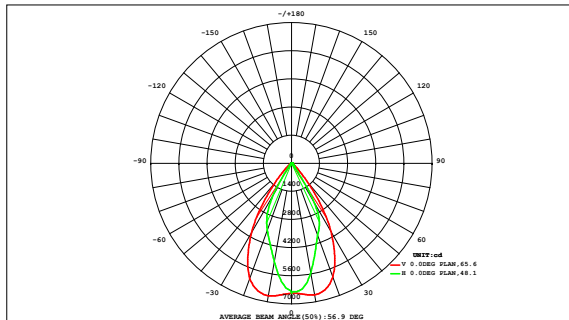
Luminaire Efficiency (Light Output Ratio)	93.4 %
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C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature: 25.3°C  
Operators:  
Test Date: 31 August 2022

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: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93PFLD6040/BL	Imax (cd)	6702
NOMINAL POWER (W)	60	AVAILABILITY (%)	88.6
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	5318
NOMINAL FLUX (lm)	6000	LOR (%)	93.4
LAMPS INSIDE	1	TOTAL FLUX (lm)	5603
TEST VOLTAGE (V)	230	θ @50% (H,V)	66,48DEG

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	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.11	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	0.01	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	0.05	0.11	0.19	0.26	0.30	0.29	0.26	0.19	0.11	0.05	0.01	0.00	0.00	0.00	1.86	0.00
70	0.00	0.00	0.01	0.07	0.22	0.43	0.68	0.86	0.91	0.91	0.84	0.68	0.43	0.21	0.07	0.01	0.00	0.00	6.34	0.00
60	0.00	0.00	0.04	0.25	0.69	1.49	2.44	3.09	3.27	3.25	2.98	2.34	1.42	0.66	0.24	0.04	0.00	0.00	22.2	0.00
50	0.00	0.00	0.11	0.65	2.39	8.20	17.1	22.6	23.5	23.0	21.4	16.1	7.76	2.30	0.61	0.11	0.00	0.00	146	89.5
40	0.00	0.01	0.21	1.29	6.37	27.7	63.3	86.3	88.3	87.8	85.0	62.7	28.1	6.43	1.23	0.20	0.01	0.00	545	525
30	0.00	0.01	0.30	1.91	10.8	47.2	99.0	129	131	130	128	98.6	47.5	10.9	1.84	0.29	0.01	0.00	837	819
20	0.00	0.01	0.35	2.34	13.9	61.5	130	174	180	179	172	130	61.8	14.0	2.25	0.34	0.02	0.00	1121	1105
10	0.00	0.02	0.35	2.37	14.3	63.3	133	180	188	190	184	137	64.8	14.6	2.31	0.35	0.02	0.00	1175	1159
0	0.00	0.01	0.31	1.97	11.5	50.2	106	139	142	143	141	109	51.6	11.9	1.96	0.31	0.01	0.00	910	893
-10	0.00	0.01	0.23	1.39	7.05	31.4	70.6	96.1	98.9	100.0	97.8	72.5	32.2	7.18	1.37	0.23	0.01	0.00	617	598
-20	0.00	0.01	0.13	0.72	2.75	9.44	20.5	27.6	29.4	29.7	28.2	21.3	10.0	2.78	0.72	0.13	0.01	0.00	183	129
-30	0.00	0.00	0.05	0.30	0.79	1.71	2.95	3.70	4.10	4.12	3.76	3.02	1.75	0.80	0.30	0.05	0.00	0.00	27.4	0.00
-40	0.00	0.00	0.01	0.10	0.28	0.55	0.86	1.08	1.16	1.16	1.09	0.87	0.55	0.28	0.10	0.01	0.00	0.00	8.13	0.00
-50	0.00	0.00	0.01	0.02	0.08	0.16	0.27	0.36	0.39	0.39	0.36	0.27	0.16	0.08	0.02	0.01	0.00	0.00	2.59	0.00
-60	0.00	0.00	0.00	0.01	0.01	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.26	0.00
-70	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.08	0.00
-80	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	0.00	0.00	0.00	0.00	0.00
-90	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	0.00	0.00	0.00	0.00	0.00
HORIZONTAL (DEG)																				
Φ t	0.02	0.11	2.14	13.4	71.1	303	647	865	891	893	867	654	308	72.2	13.1	2.08	0.11	0.02	5603	---
Φ a	0.00	0.00	0.00	0.00	27.1	282	628	845	869	870	847	634	288	29.1	0.00	0.00	0.00	0.00	---	5318

one-half-peak spread: U:23.2,D:22.8 , L:22.9,R:23.0

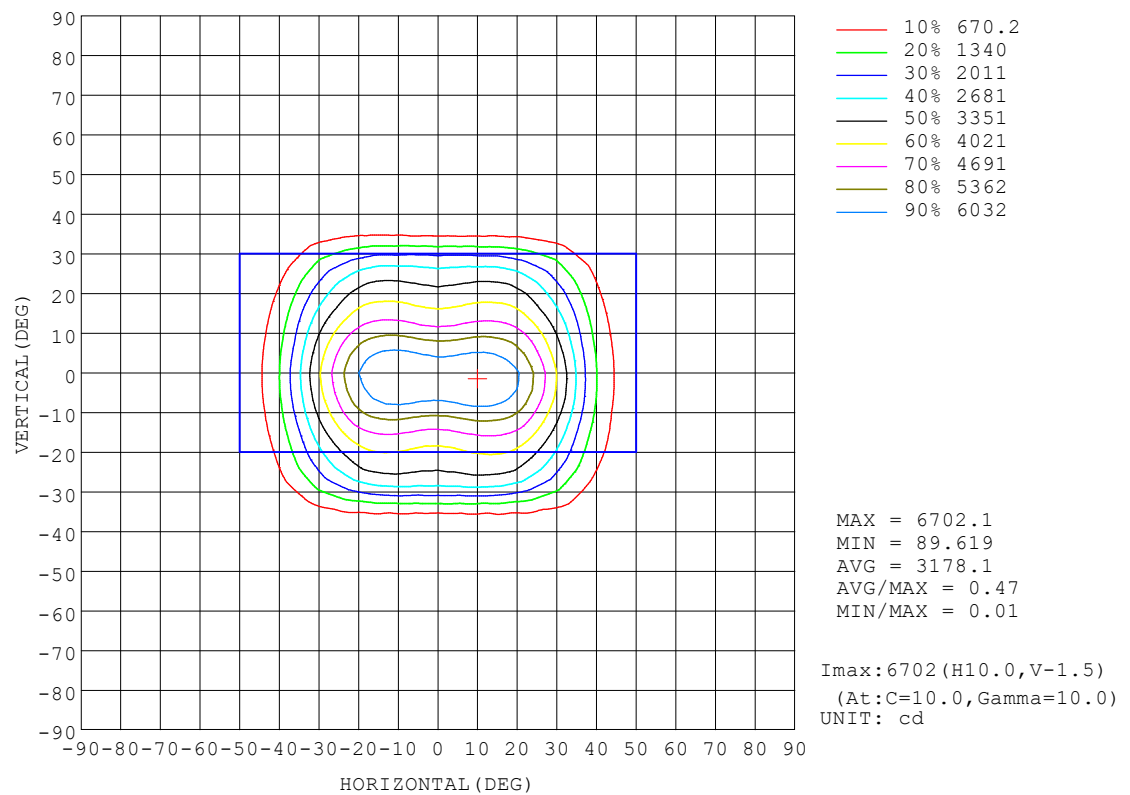
NEMA Beam Type: Type 5

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: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	Shielding Angle:

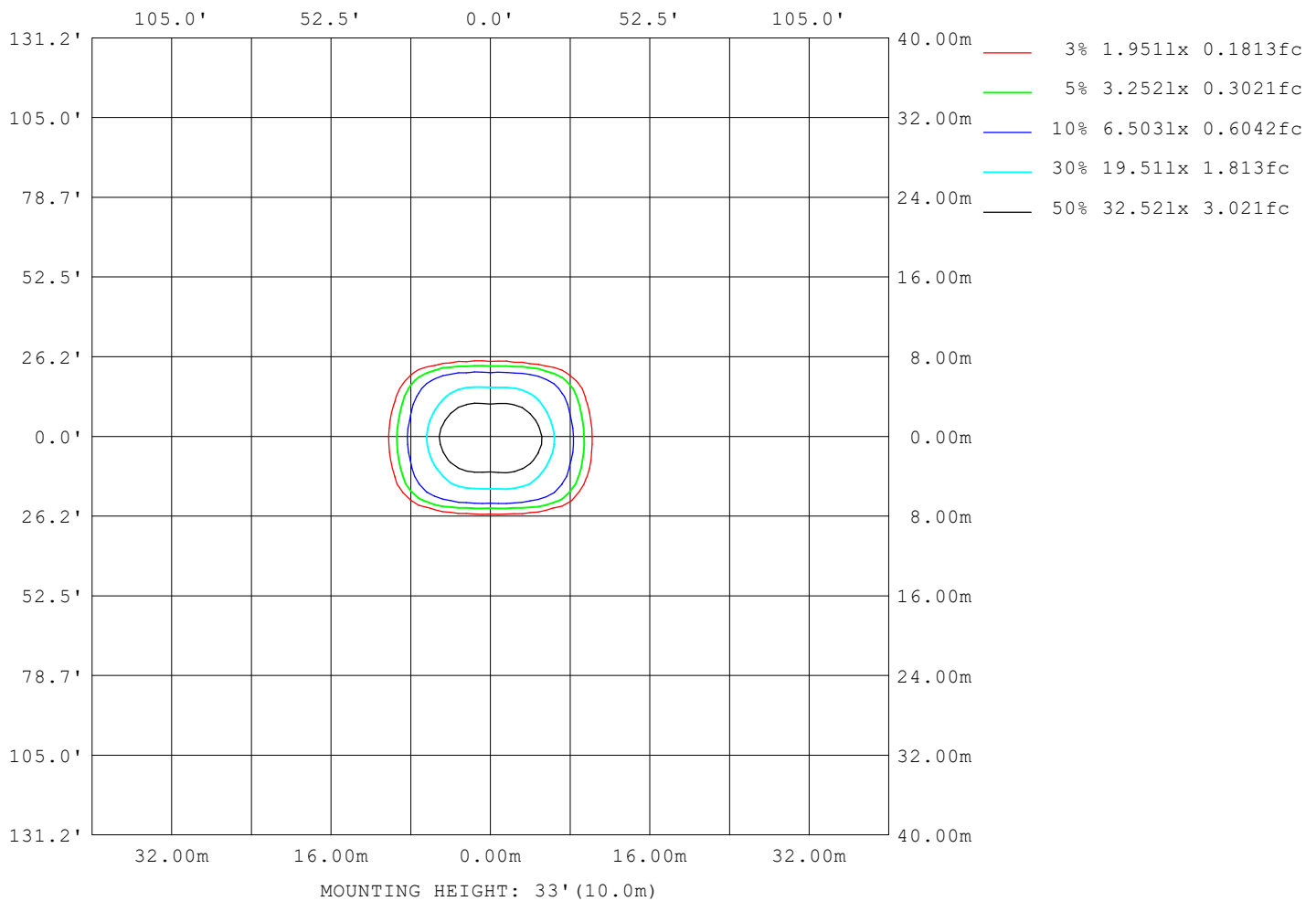


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 31 August 2022

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:

## ISOLUX DIAGRAM

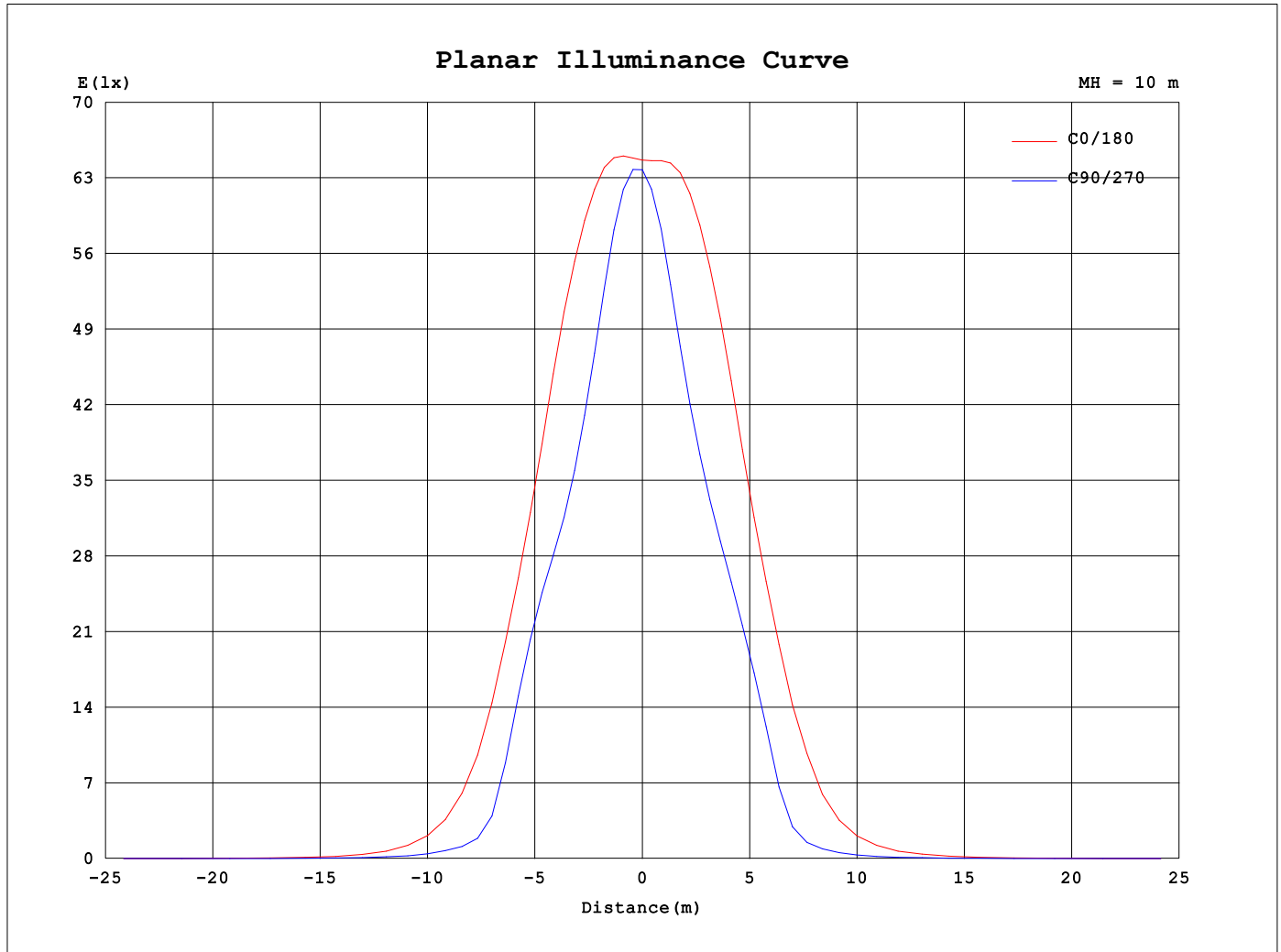
NAME: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	Shielding Angle:



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:

### Planar Illuminance Curve

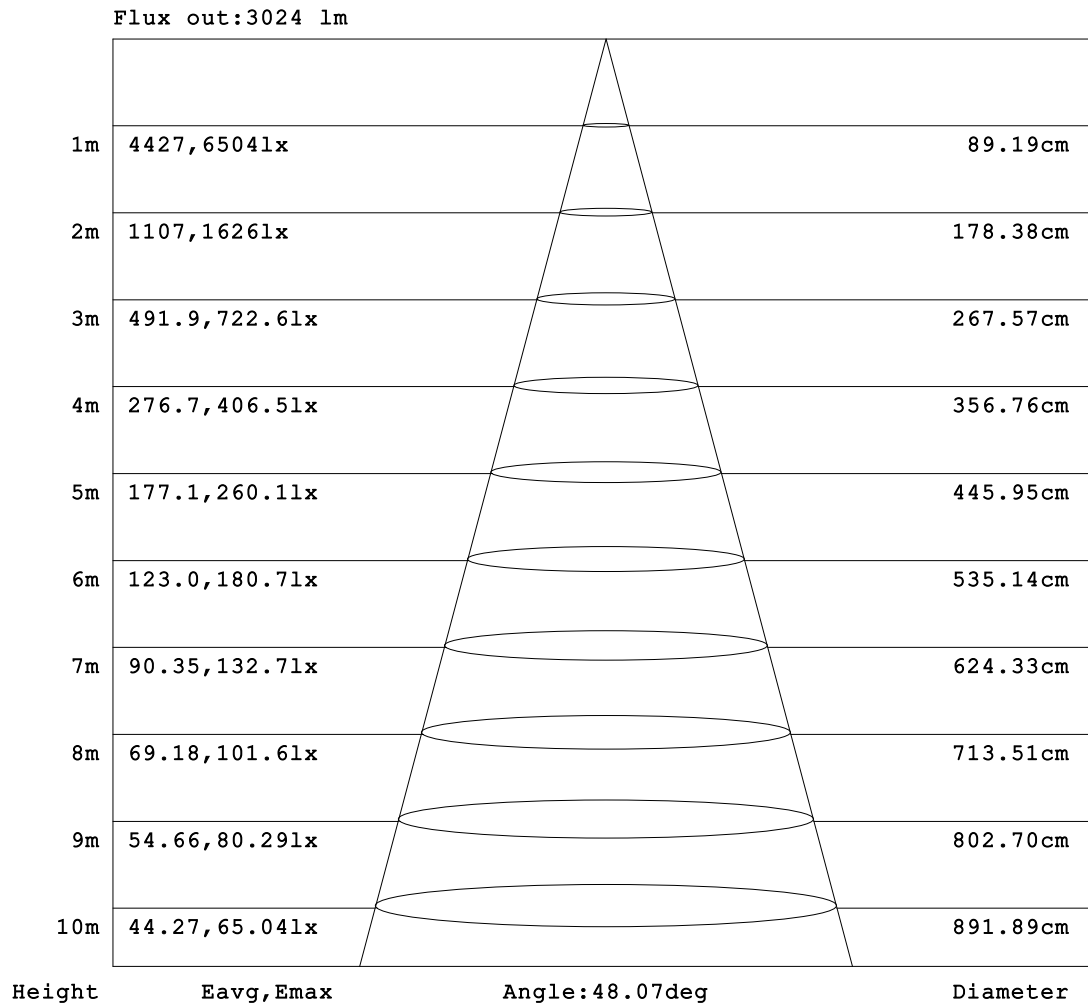


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 31 August 2022

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	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: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	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	0.40	0.34	0.28	0.28	0.28	0.27	0.25	0.24	0.24	0.22	0.20	0.21	0.21	0.20	0.20	0.20	0.20	0.20	0.20
-85	0.40	0.34	0.28	0.28	0.28	0.27	0.25	0.25	0.25	0.23	0.21	0.22	0.22	0.21	0.20	0.21	0.22	0.21	0.20
-80	0.40	0.34	0.28	0.28	0.30	0.29	0.27	0.29	0.31	0.29	0.28	0.29	0.30	0.28	0.26	0.27	0.28	0.27	0.26
-75	0.40	0.34	0.28	0.29	0.31	0.32	0.33	0.37	0.40	0.42	0.42	0.44	0.48	0.48	0.43	0.44	0.45	0.43	0.41
-70	0.40	0.34	0.29	0.30	0.35	0.38	0.42	0.49	0.63	1.07	1.47	2.12	2.62	3.25	3.99	4.52	4.81	4.96	4.89
-65	0.40	0.34	0.30	0.33	0.39	0.46	0.53	0.96	2.01	3.31	4.82	6.27	7.85	9.37	11.0	12.0	12.6	12.8	12.7
-60	0.40	0.34	0.30	0.35	0.44	0.55	0.92	2.59	4.82	7.05	9.49	12.3	14.9	17.5	19.7	21.1	21.6	21.8	21.7
-55	0.40	0.34	0.32	0.38	0.50	0.72	2.42	5.55	9.02	12.3	16.5	21.0	25.5	30.0	33.0	35.2	35.7	36.0	35.9
-50	0.40	0.34	0.33	0.41	0.57	1.46	5.20	10.0	15.1	20.5	26.8	35.4	44.1	51.8	57.4	61.0	63.0	63.7	63.6
-45	0.40	0.34	0.34	0.45	0.67	2.84	9.23	16.4	24.1	33.8	44.5	62.3	78.3	94.5	107	115	121	123	123
-40	0.40	0.35	0.35	0.49	0.90	5.73	14.3	25.5	39.0	59.2	90.8	129	189	218	221	241	251	248	248
-35	0.40	0.35	0.36	0.51	1.75	8.82	20.7	37.9	65.5	112	195	315	497	627	714	763	794	733	719
-30	0.40	0.35	0.37	0.53	2.48	12.5	27.5	53.2	102	201	388	727	1264	1667	2026	2253	2316	2289	2320
-25	0.40	0.35	0.38	0.54	3.86	15.8	34.6	72.5	144	288	627	1247	1978	2623	3157	3382	3420	3337	3308
-20	0.40	0.36	0.38	0.54	5.28	19.2	41.8	87.0	181	395	842	1640	2542	3256	3797	4021	4005	3886	3810
-15	0.40	0.36	0.38	0.52	6.34	21.5	47.8	100	218	478	1026	1969	3027	3866	4501	4758	4767	4625	4555
-10	0.40	0.36	0.37	0.50	7.03	23.1	51.5	110	246	544	1196	2303	3477	4468	5250	5622	5695	5576	5526
-5	0.40	0.37	0.37	0.46	7.36	23.9	53.4	115	261	588	1302	2513	3806	4902	5776	6245	6395	6312	6266
0	0.40	0.37	0.36	0.43	7.33	23.9	53.5	116	262	597	1327	2583	3949	5089	6025	6506	6649	6536	6467
5	0.40	0.37	0.36	0.42	7.15	23.5	52.7	114	256	574	1268	2439	3705	4759	5601	6041	6134	6013	5896
10	0.40	0.37	0.36	0.42	6.62	22.3	50.2	108	237	518	1138	2188	3314	4214	4909	5217	5243	5093	4966
15	0.40	0.37	0.36	0.41	5.75	20.4	46.0	99.2	209	448	961	1883	2837	3592	4188	4418	4413	4259	4153
20	0.40	0.37	0.36	0.40	4.56	17.8	39.7	84.0	178	364	766	1492	2335	3022	3545	3764	3758	3639	3540
25	0.40	0.37	0.36	0.39	3.05	14.3	32.4	66.9	138	260	546	1085	1760	2352	2812	3032	3044	2973	2900
30	0.40	0.37	0.36	0.38	1.67	11.0	25.3	49.6	93.1	170	332	619	1094	1412	1715	1912	1907	1920	1882
35	0.40	0.37	0.36	0.37	1.13	7.43	18.5	34.5	57.3	105	172	276	420	509	587	617	618	576	537
40	0.40	0.37	0.36	0.37	0.51	4.48	12.2	22.4	34.3	53.2	79.8	126	151	182	199	202	209	207	203
45	0.40	0.37	0.36	0.36	0.38	1.81	7.45	13.7	20.2	29.1	38.6	53.3	65.4	78.8	89.7	97.1	97.8	97.2	95.1
50	0.40	0.37	0.35	0.36	0.36	0.84	3.74	7.74	12.1	16.9	22.3	29.0	35.9	42.1	46.3	48.4	49.9	49.9	49.1
55	0.40	0.37	0.35	0.35	0.35	0.37	1.41	3.77	6.71	9.55	12.9	16.4	20.1	23.7	26.1	27.8	28.4	28.4	27.9
60	0.40	0.37	0.35	0.35	0.35	0.34	0.43	1.46	3.19	5.01	6.89	9.07	11.3	13.3	15.2	16.4	17.1	17.2	16.9
65	0.40	0.37	0.35	0.35	0.34	0.34	0.35	0.47	1.09	1.99	3.11	4.20	5.47	6.66	7.91	8.86	9.52	9.69	9.53
70	0.40	0.38	0.35	0.35	0.35	0.34	0.34	0.34	0.36	0.54	0.69	1.12	1.35	1.76	2.24	2.61	2.80	2.74	2.50
75	0.40	0.38	0.35	0.35	0.35	0.34	0.33	0.33	0.32	0.33	0.34	0.33	0.33	0.34	0.35	0.34	0.33	0.35	0.37
80	0.40	0.38	0.36	0.36	0.36	0.34	0.33	0.33	0.32	0.32	0.32	0.31	0.31	0.31	0.32	0.31	0.30	0.31	0.32
85	0.40	0.39	0.38	0.38	0.38	0.35	0.33	0.33	0.34	0.32	0.31	0.31	0.31	0.31	0.30	0.30	0.30	0.30	0.31
90	0.40	0.39	0.39	0.39	0.39	0.38	0.37	0.37	0.36	0.35	0.33	0.33	0.33	0.32	0.31	0.31	0.31	0.31	0.30

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:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 93PFLD6040/BL	TYPE: 93PFLD6040/BL	WEIGHT: 1
SPEC.:	DIM.: 270 x 105 x 40	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 24 square 20 x 20	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	0.20	0.21	0.21	0.21	0.21	0.22	0.22	0.22	0.24	0.25	0.26	0.28	0.28	0.29	0.30	0.31	0.31	0.31	
-85	0.22	0.23	0.22	0.21	0.23	0.24	0.23	0.23	0.25	0.27	0.27	0.27	0.28	0.29	0.30	0.30	0.31	0.31	
-80	0.27	0.28	0.27	0.27	0.29	0.31	0.30	0.28	0.30	0.31	0.30	0.28	0.29	0.30	0.30	0.30	0.31	0.31	
-75	0.43	0.44	0.44	0.44	0.49	0.49	0.44	0.43	0.42	0.41	0.37	0.33	0.33	0.32	0.30	0.30	0.31	0.31	
-70	4.98	4.83	4.51	3.96	3.22	2.61	2.11	1.46	1.05	0.62	0.49	0.42	0.39	0.36	0.31	0.30	0.30	0.31	
-65	12.8	12.6	12.0	10.9	9.32	7.81	6.23	4.77	3.25	1.94	0.90	0.53	0.46	0.40	0.33	0.30	0.30	0.31	
-60	21.9	21.7	21.2	19.7	17.4	14.9	12.3	9.48	7.00	4.75	2.49	0.86	0.55	0.45	0.36	0.31	0.30	0.31	
-55	36.2	36.0	35.5	33.2	30.0	25.6	21.1	16.5	12.4	9.02	5.48	2.32	0.70	0.51	0.39	0.32	0.31	0.31	
-50	63.9	63.5	61.8	58.1	52.3	44.5	35.7	27.0	20.6	15.2	9.99	5.08	1.40	0.58	0.42	0.34	0.31	0.31	
-45	123	122	116	109	96.2	79.5	63.4	45.2	34.1	24.3	16.4	9.09	2.71	0.67	0.46	0.35	0.31	0.31	
-40	250	255	247	228	227	196	132	92.7	59.9	39.2	25.4	14.1	5.56	0.88	0.50	0.37	0.32	0.31	
-35	742	807	785	740	651	550	327	199	113	65.4	37.7	20.4	8.61	1.67	0.55	0.39	0.32	0.31	
-30	2314	2345	2291	2081	1714	1296	782	395	202	101	52.9	27.1	12.2	2.34	0.60	0.41	0.32	0.31	
-25	3379	3477	3439	3239	2693	2024	1271	649	289	143	72.0	34.2	15.4	3.73	0.64	0.43	0.33	0.31	
-20	3932	4062	4086	3891	3353	2610	1679	888	398	180	86.5	41.3	18.8	5.20	0.68	0.44	0.33	0.31	
-15	4680	4825	4828	4605	3975	3110	2020	1057	493	218	100.0	47.3	21.2	6.30	0.72	0.46	0.33	0.31	
-10	5626	5762	5706	5370	4589	3578	2367	1244	558	245	110	51.0	22.8	7.04	0.74	0.47	0.34	0.31	
-5	6384	6501	6375	5939	5065	3924	2587	1346	598	258	114	52.8	23.6	7.43	0.76	0.47	0.34	0.31	
0	6578	6700	6556	6102	5162	4001	2623	1352	601	258	114	52.8	23.7	7.47	0.77	0.48	0.34	0.31	
5	5949	6047	5950	5559	4742	3702	2458	1291	578	251	111	51.7	23.1	7.19	0.72	0.47	0.34	0.31	
10	5058	5191	5151	4877	4205	3302	2201	1159	521	232	105	48.8	21.7	6.57	0.66	0.45	0.34	0.31	
15	4248	4383	4379	4166	3581	2830	1898	987	453	205	93.1	44.3	19.7	5.64	0.60	0.44	0.34	0.31	
20	3629	3732	3728	3526	3013	2336	1511	793	368	175	77.6	37.9	16.9	4.40	0.54	0.42	0.34	0.31	
25	2960	3015	2987	2784	2330	1752	1098	577	259	135	63.2	30.8	13.4	2.88	0.48	0.40	0.34	0.31	
30	1896	1856	1841	1655	1362	1065	628	332	166	89.6	47.3	23.8	10.3	1.53	0.42	0.39	0.33	0.31	
35	563	588	575	547	468	396	256	158	100	54.4	32.7	17.3	6.95	1.05	0.38	0.37	0.33	0.31	
40	205	204	195	182	169	142	108	76.8	50.4	32.4	21.1	11.4	4.18	0.49	0.35	0.36	0.33	0.31	
45	96.4	96.3	94.7	87.4	76.8	64.1	52.0	37.7	27.8	19.2	12.9	6.96	1.71	0.37	0.35	0.35	0.33	0.31	
50	49.6	49.2	47.5	45.3	41.3	35.4	28.5	21.8	16.3	11.5	7.33	3.53	0.80	0.34	0.34	0.34	0.33	0.31	
55	28.3	28.1	27.4	25.8	23.4	19.9	16.1	12.6	9.26	6.44	3.63	1.37	0.36	0.34	0.34	0.34	0.33	0.31	
60	17.1	17.0	16.4	15.1	13.3	11.2	8.89	6.71	4.85	3.09	1.44	0.43	0.33	0.33	0.34	0.34	0.33	0.31	
65	9.68	9.52	8.92	7.98	6.67	5.41	4.08	2.99	1.92	1.07	0.47	0.34	0.33	0.33	0.34	0.34	0.33	0.31	
70	2.71	2.75	2.59	2.23	1.70	1.26	1.06	0.65	0.52	0.35	0.33	0.33	0.33	0.34	0.34	0.34	0.33	0.31	
75	0.35	0.33	0.34	0.34	0.33	0.32	0.32	0.32	0.32	0.31	0.32	0.32	0.33	0.34	0.35	0.35	0.34	0.31	
80	0.31	0.30	0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.32	0.32	0.32	0.34	0.36	0.36	0.36	0.34	0.31	
85	0.30	0.30	0.30	0.30	0.31	0.31	0.31	0.31	0.32	0.34	0.33	0.33	0.35	0.37	0.37	0.38	0.35	0.31	
90	0.31	0.31	0.31	0.31	0.32	0.32	0.33	0.33	0.34	0.35	0.36	0.37	0.38	0.38	0.39	0.39	0.35	0.31	

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: