

# Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	1043.4 cd per klm.
(Luminaire orientation as tested.)	-1.5 degrees vertical
	2.0 degrees horizontal

Beam Spread	At 10% of Imax	69.9V x 91.6H
	At 50% of Imax	51.3V x 64.7H
	At 90% of Imax	15.0V x 29.1H

Beam Flux	Total	864.8 lumens per klm.
	To 10% of Imax	823.4 lumens per klm.
	To 50% of Imax	561.9 lumens per klm.
	To 90% of Imax	108.0 lumens per klm.

Upward LOR	0.0 %
Downward LOR	86.5 %

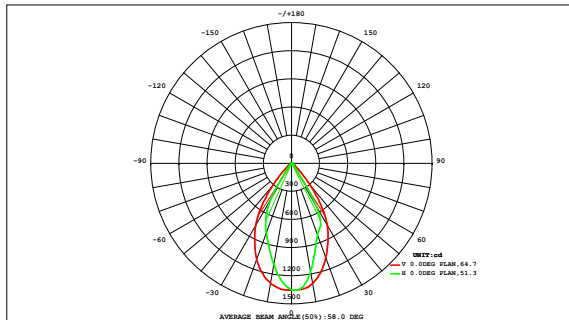
Luminaire Efficiency (Light Output Ratio)	86.4 %
---	--------

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 26 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: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	93ZFLD1240/BL	Imax (cd)	1356
NOMINAL POWER (W)	12	AVAILABILITY (%)	82.1
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	1068
NOMINAL FLUX (lm)	1300	LOR (%)	86.4
LAMPS INSIDE	1	TOTAL FLUX (lm)	1123
TEST VOLTAGE (V)	230	θ @50% (H,V)	65,51DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	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	0.01	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	0.03	0.00
80	0.00	0.00	0.00	0.00	0.01	0.02	0.04	0.06	0.06	0.06	0.06	0.04	0.02	0.01	0.00	0.00	0.00	0.00	0.40	0.00
70	0.00	0.00	0.00	0.02	0.05	0.09	0.15	0.18	0.20	0.20	0.18	0.15	0.09	0.05	0.01	0.00	0.00	0.00	1.36	0.00
60	0.00	0.00	0.01	0.06	0.15	0.31	0.49	0.61	0.68	0.68	0.61	0.49	0.31	0.15	0.05	0.01	0.00	0.00	4.61	0.00
50	0.00	0.00	0.03	0.15	0.54	1.74	3.31	4.62	5.20	5.18	4.69	3.38	1.81	0.55	0.14	0.02	0.00	0.00	31.4	20.4
40	0.00	0.00	0.05	0.31	1.60	6.04	11.8	16.7	19.2	19.1	16.7	11.9	6.16	1.61	0.28	0.04	0.00	0.00	112	108
30	0.00	0.00	0.07	0.47	2.80	10.1	18.5	25.0	28.1	27.9	24.9	18.4	10.1	2.75	0.43	0.06	0.00	0.00	170	166
20	0.00	0.00	0.08	0.57	3.60	13.0	23.8	32.7	37.4	37.2	32.7	24.0	13.0	3.51	0.52	0.08	0.00	0.00	222	219
10	0.00	0.00	0.08	0.58	3.72	13.5	24.7	34.1	39.2	38.9	34.1	24.9	13.5	3.65	0.53	0.08	0.00	0.00	231	229
0	0.00	0.00	0.07	0.49	3.01	10.8	19.6	26.4	29.6	29.3	26.1	19.7	10.8	2.96	0.44	0.07	0.00	0.00	179	176
-10	0.00	0.00	0.05	0.33	1.83	7.01	13.5	18.8	21.5	21.3	18.7	13.5	6.97	1.74	0.29	0.05	0.00	0.00	126	122
-20	0.00	0.00	0.03	0.17	0.65	2.19	4.21	5.72	6.46	6.26	5.47	3.89	1.99	0.58	0.15	0.03	0.00	0.00	37.8	26.8
-30	0.00	0.00	0.01	0.07	0.18	0.37	0.58	0.72	0.79	0.78	0.70	0.55	0.34	0.16	0.06	0.01	0.00	0.00	5.33	0.00
-40	0.00	0.00	0.00	0.02	0.06	0.12	0.18	0.23	0.24	0.24	0.22	0.18	0.11	0.06	0.02	0.00	0.00	0.00	1.70	0.00
-50	0.00	0.00	0.00	0.00	0.02	0.04	0.06	0.08	0.09	0.08	0.08	0.06	0.03	0.02	0.00	0.00	0.00	0.00	0.56	0.00
-60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00
-70	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	0.01	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	0.00	0.02	0.50	3.25	18.2	65.4	121	166	189	187	165	121	65.3	17.8	2.93	0.45	0.02	0.00	1123	---
Φ a	0.00	0.00	0.00	0.00	10.2	61.4	117	162	184	183	161	117	61.4	10.00	0.00	0.00	0.00	0.00	---	1068

one-half-peak spread: U:24.9,D:24.5 , L:32.5,R:32.5

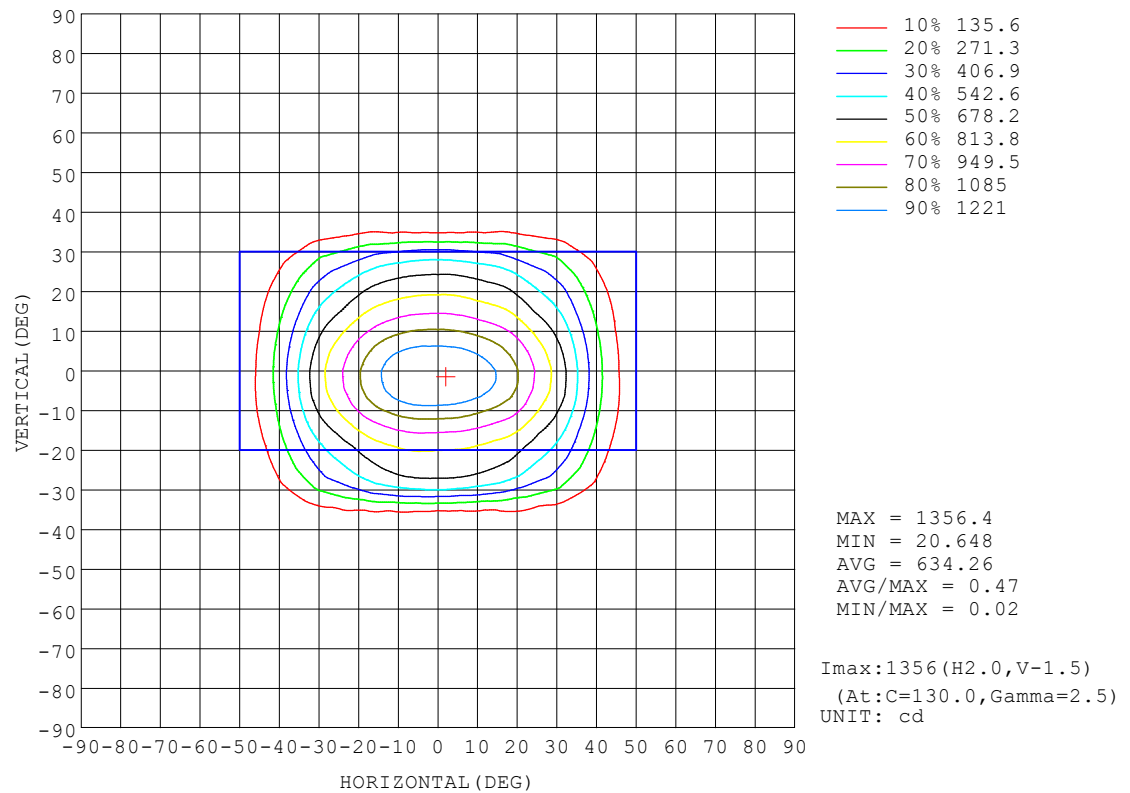
NEMA Beam Type: Type 5 x 4 (H x V)

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:26 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: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	Shielding Angle:

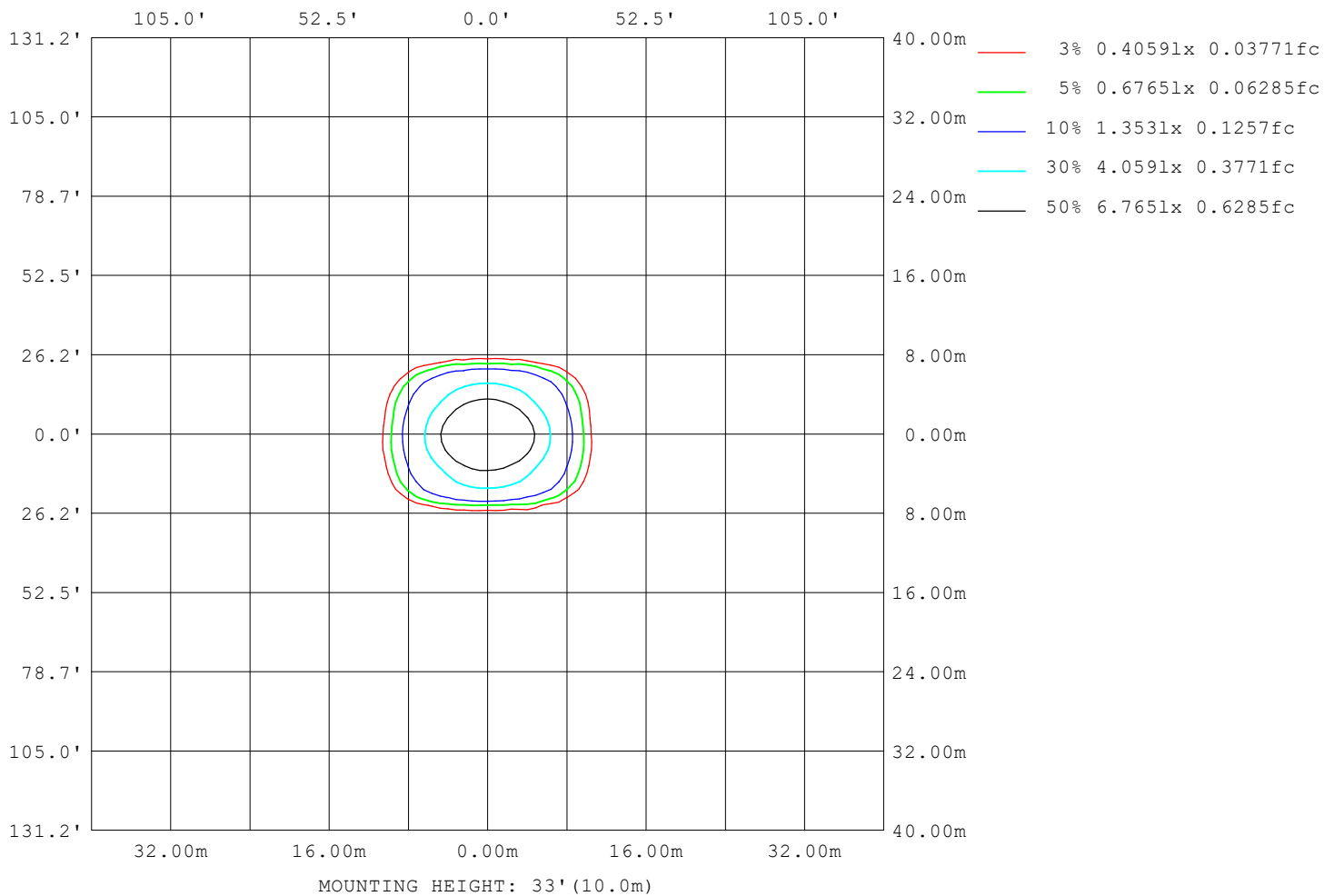


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature:25.3°C  
 Operators:  
 Test Date:26 August 2022

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**

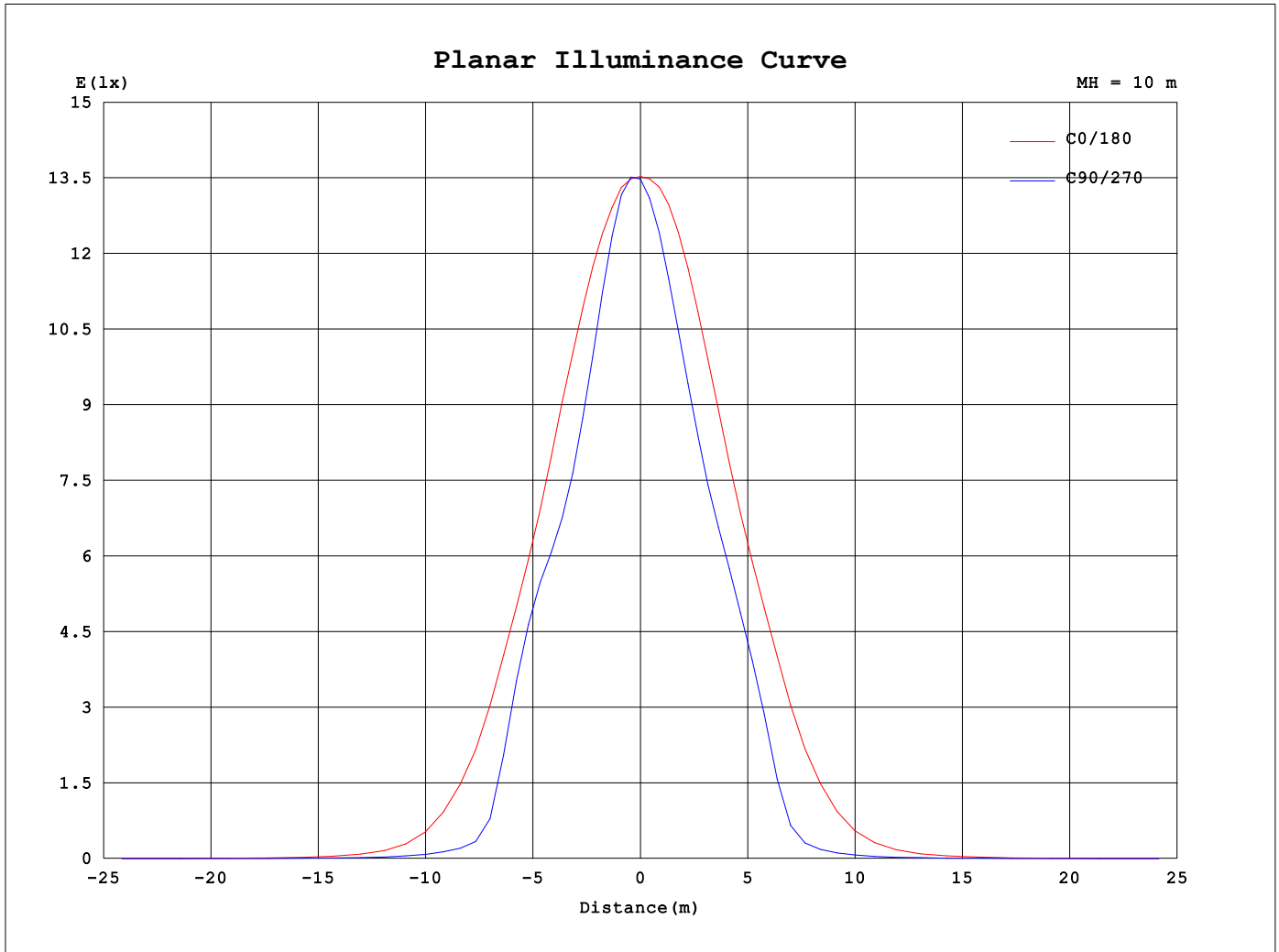
NAME: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 26 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

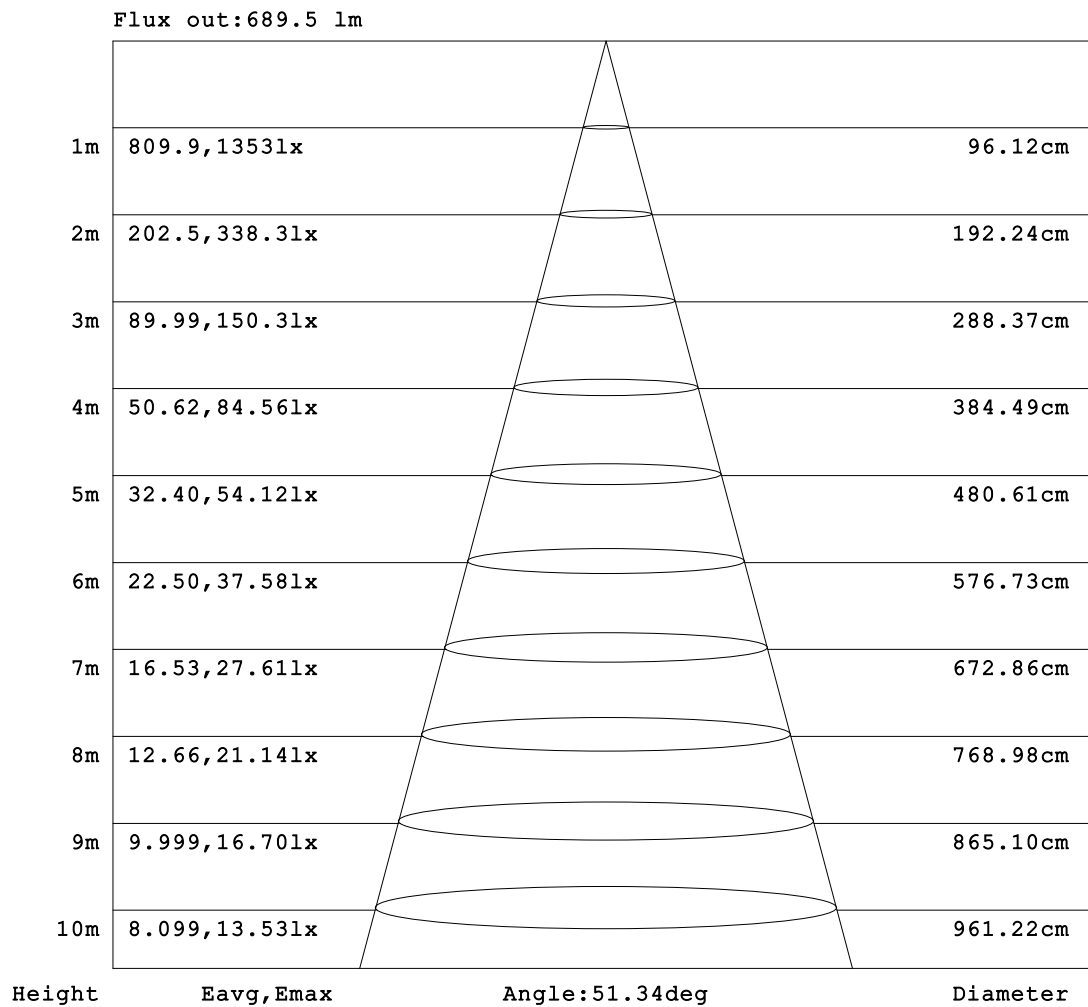


C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 26 August 2022

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: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	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: 26 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: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	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
-90	0.05	0.04	0.03	0.03	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
-85	0.05	0.04	0.03	0.03	0.04	0.03	0.02	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.02	0.02	0.01
-80	0.05	0.04	0.03	0.04	0.04	0.03	0.02	0.03	0.04	0.03	0.02	0.03	0.04	0.03	0.01	0.02	0.03	0.02	0.01
-75	0.05	0.04	0.03	0.04	0.04	0.04	0.03	0.05	0.07	0.06	0.06	0.06	0.09	0.08	0.06	0.07	0.08	0.07	0.06
-70	0.05	0.04	0.03	0.04	0.05	0.06	0.06	0.07	0.12	0.24	0.33	0.48	0.62	0.75	0.89	1.03	1.14	1.17	1.14
-65	0.05	0.04	0.03	0.04	0.06	0.08	0.08	0.19	0.47	0.78	1.09	1.40	1.75	2.07	2.38	2.62	2.78	2.81	2.76
-60	0.05	0.04	0.03	0.05	0.08	0.10	0.19	0.59	1.13	1.63	2.14	2.70	3.26	3.78	4.22	4.52	4.63	4.64	4.56
-55	0.05	0.04	0.04	0.05	0.09	0.16	0.58	1.31	2.11	2.82	3.68	4.57	5.49	6.38	6.98	7.41	7.50	7.49	7.38
-50	0.05	0.04	0.04	0.06	0.11	0.36	1.28	2.38	3.50	4.66	5.94	7.62	9.30	10.8	11.9	12.6	12.9	13.0	12.8
-45	0.05	0.04	0.04	0.07	0.13	0.74	2.26	3.87	5.52	7.60	9.87	13.4	16.2	19.3	21.5	22.7	23.9	24.1	24.0
-40	0.05	0.04	0.04	0.08	0.19	1.44	3.45	5.99	8.94	13.5	20.2	28.0	36.2	41.2	41.8	45.2	46.8	46.1	45.7
-35	0.05	0.04	0.05	0.08	0.42	2.18	4.91	8.97	14.9	26.1	46.7	73.9	110	128	143	156	167	154	144
-30	0.05	0.04	0.05	0.08	0.63	3.01	6.50	12.8	24.4	47.6	103	176	276	338	403	470	510	532	543
-25	0.05	0.04	0.05	0.08	0.96	3.77	8.15	17.0	36.5	74.8	163	282	406	498	583	658	707	730	736
-20	0.05	0.04	0.05	0.08	1.31	4.55	9.84	20.7	46.1	103	214	357	502	599	687	759	799	820	815
-15	0.05	0.04	0.05	0.08	1.57	5.09	11.3	24.8	55.8	127	261	430	600	710	817	898	950	974	970
-10	0.05	0.05	0.05	0.07	1.74	5.46	12.2	27.4	62.8	151	299	500	691	826	957	1064	1135	1171	1175
-5	0.05	0.05	0.05	0.06	1.82	5.66	12.7	28.8	66.6	160	324	545	753	903	1053	1182	1275	1323	1332
0	0.05	0.05	0.05	0.05	1.81	5.67	12.7	28.9	66.8	155	331	554	766	921	1073	1204	1301	1348	1353
5	0.05	0.05	0.05	0.06	1.76	5.58	12.6	28.4	65.4	150	316	524	724	872	1008	1131	1211	1251	1257
10	0.05	0.05	0.05	0.06	1.62	5.30	12.0	26.8	60.6	136	284	470	651	778	897	996	1059	1093	1097
15	0.05	0.05	0.05	0.06	1.40	4.86	11.0	24.0	52.7	117	241	399	561	669	775	852	900	925	931
20	0.05	0.05	0.05	0.06	1.10	4.24	9.42	19.6	42.5	93.4	196	324	466	560	654	728	765	787	791
25	0.05	0.05	0.05	0.06	0.73	3.39	7.56	15.7	32.8	65.3	140	240	351	434	511	583	624	648	655
30	0.05	0.05	0.05	0.06	0.39	2.58	5.80	11.5	21.6	40.2	83.2	140	221	269	322	378	405	432	442
35	0.05	0.05	0.05	0.05	0.25	1.74	4.19	7.80	13.0	21.7	38.4	58.2	85.7	97.7	115	135	131	127	121
40	0.05	0.05	0.05	0.05	0.09	1.03	2.75	4.99	7.53	11.4	17.1	23.7	30.2	34.9	36.4	39.3	41.3	41.3	40.9
45	0.05	0.05	0.05	0.05	0.06	0.40	1.67	3.04	4.40	6.31	8.37	11.4	13.8	16.3	18.2	19.1	20.2	20.4	20.3
50	0.05	0.05	0.05	0.05	0.05	0.16	0.84	1.73	2.65	3.68	4.86	6.29	7.70	8.96	9.81	10.3	10.6	10.7	10.6
55	0.05	0.05	0.04	0.05	0.04	0.05	0.31	0.85	1.48	2.09	2.84	3.60	4.38	5.11	5.61	5.96	6.07	6.09	6.00
60	0.05	0.05	0.04	0.04	0.04	0.04	0.07	0.32	0.70	1.09	1.53	2.01	2.47	2.90	3.30	3.56	3.67	3.70	3.66
65	0.05	0.05	0.04	0.04	0.04	0.04	0.04	0.08	0.22	0.43	0.69	0.94	1.20	1.46	1.73	1.93	2.06	2.11	2.09
70	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.09	0.14	0.23	0.26	0.36	0.48	0.56	0.58	0.59	0.57
75	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.04	0.05	0.04	0.03	0.04	0.06
80	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.04
85	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04
90	0.05	0.04	0.04	0.04	0.05	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.03

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:26 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: 93ZFLD1240/BL	TYPE: 93ZFLD1240/BL	WEIGHT: 1
SPEC.:	DIM.: 140 x 36 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 square	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	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	
-85	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	
-80	0.02	0.03	0.02	0.01	0.03	0.04	0.03	0.02	0.03	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	
-75	0.07	0.08	0.06	0.05	0.07	0.08	0.06	0.05	0.06	0.06	0.04	0.03	0.04	0.05	0.04	0.04	0.04	0.04	
-70	1.14	1.09	0.97	0.82	0.67	0.55	0.41	0.26	0.19	0.11	0.07	0.05	0.06	0.05	0.04	0.04	0.04	0.04	
-65	2.78	2.73	2.57	2.33	2.01	1.67	1.31	1.00	0.69	0.39	0.15	0.08	0.08	0.06	0.04	0.04	0.04	0.04	
-60	4.61	4.56	4.44	4.13	3.67	3.15	2.58	2.01	1.50	1.00	0.49	0.15	0.10	0.07	0.04	0.04	0.04	0.04	
-55	7.42	7.37	7.24	6.79	6.19	5.32	4.41	3.50	2.64	1.90	1.13	0.45	0.14	0.09	0.05	0.04	0.04	0.04	
-50	12.8	12.7	12.2	11.6	10.5	9.00	7.35	5.67	4.35	3.19	2.10	1.05	0.27	0.10	0.06	0.04	0.04	0.04	
-45	23.9	23.4	22.1	20.7	18.5	15.5	12.7	9.32	7.01	5.02	3.43	1.91	0.52	0.12	0.06	0.04	0.04	0.04	
-40	45.7	45.3	44.1	39.7	37.6	32.8	25.0	18.3	12.0	7.98	5.27	2.97	1.15	0.15	0.07	0.05	0.04	0.04	
-35	146	153	141	150	110	97.3	63.2	42.3	22.6	13.0	7.79	4.29	1.83	0.29	0.08	0.05	0.04	0.04	
-30	522	493	456	391	323	264	166	98.5	42.4	21.2	11.1	5.74	2.61	0.39	0.10	0.06	0.04	0.04	
-25	725	699	659	596	498	406	280	161	69.7	32.0	14.9	7.28	3.34	0.72	0.11	0.06	0.04	0.04	
-20	811	788	755	700	603	508	360	215	99.2	41.2	18.4	8.89	4.09	1.07	0.12	0.07	0.05	0.04	
-15	962	932	887	823	709	600	428	262	124	50.8	22.3	10.3	4.62	1.33	0.13	0.07	0.05	0.04	
-10	1157	1112	1052	965	826	690	499	300	148	57.4	24.7	11.1	4.99	1.51	0.14	0.08	0.05	0.04	
-5	1315	1263	1183	1069	909	756	546	324	156	60.8	25.9	11.6	5.19	1.60	0.15	0.08	0.05	0.04	
0	1347	1298	1212	1093	930	769	554	329	150	60.6	25.9	11.6	5.24	1.61	0.15	0.08	0.05	0.04	
5	1244	1198	1126	1020	874	724	524	313	145	59.6	25.5	11.5	5.12	1.56	0.14	0.08	0.05	0.04	
10	1086	1047	991	905	776	648	470	282	131	55.3	24.0	10.9	4.84	1.42	0.12	0.08	0.05	0.04	
15	920	887	847	776	662	558	398	242	115	48.6	21.5	9.94	4.40	1.21	0.11	0.07	0.05	0.04	
20	786	756	723	656	556	465	326	198	92.4	39.5	17.9	8.52	3.81	0.93	0.10	0.07	0.05	0.04	
25	648	617	584	516	434	356	245	143	65.0	30.9	14.5	6.91	3.03	0.58	0.08	0.06	0.05	0.04	
30	427	403	383	326	272	227	145	87.2	40.4	20.6	10.8	5.36	2.30	0.27	0.07	0.06	0.05	0.04	
35	127	133	137	117	100	88.8	60.8	40.0	22.1	12.6	7.40	3.89	1.52	0.18	0.06	0.05	0.04	0.04	
40	41.3	41.3	39.4	36.6	35.4	30.8	24.3	17.4	11.4	7.34	4.74	2.54	0.87	0.07	0.05	0.05	0.04	0.04	
45	20.5	20.1	19.1	18.2	16.3	13.7	11.4	8.33	6.21	4.28	2.88	1.52	0.28	0.05	0.05	0.05	0.04	0.04	
50	10.7	10.6	10.3	9.76	8.87	7.61	6.19	4.75	3.57	2.53	1.61	0.72	0.12	0.05	0.05	0.05	0.04	0.04	
55	6.09	6.06	5.93	5.55	5.03	4.28	3.49	2.73	1.99	1.38	0.76	0.24	0.04	0.04	0.04	0.04	0.04	0.04	
60	3.70	3.66	3.53	3.25	2.84	2.39	1.91	1.43	1.00	0.62	0.26	0.06	0.04	0.04	0.04	0.04	0.04	0.04	
65	2.11	2.06	1.92	1.71	1.41	1.14	0.87	0.62	0.37	0.17	0.07	0.05	0.04	0.04	0.04	0.04	0.04	0.04	
70	0.60	0.59	0.56	0.48	0.35	0.25	0.21	0.12	0.07	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
75	0.04	0.03	0.04	0.05	0.04	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
80	0.04	0.03	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
85	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
90	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:26 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: