

Floodlight Summary:

Report based on lamp delivering 1000 lumens.

Maximum Intensity	142.0 cd per klm.
(Luminaire orientation as tested.)	-104.5 degrees vertical
	-69.5 degrees horizontal

Beam Spread	At 10% of Imax	343.7V x 180.0H
	At 50% of Imax	328.5V x 180.0H
	At 90% of Imax	308.3V x 24.3H

Beam Flux	Total	1239.8 lumens per klm.
	To 10% of Imax	1239.2 lumens per klm.
	To 50% of Imax	1189.6 lumens per klm.
	To 90% of Imax	214.5 lumens per klm.

Upward LOR	61.7 %
Downward LOR	62.2 %

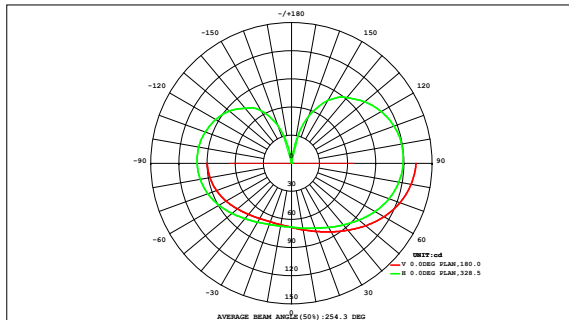
Luminaire Efficiency (Light Output Ratio)	124.0 %
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C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 24 October 2022

γ Range: 0 - 180DEG
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: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



DATA OF LAMP		PHOTOMETRIC DATA	
MODEL	99LED834W	Imax (cd)	134.9
NOMINAL POWER (W)	9	AVAILABILITY (%)	123.9
RATED VOLTAGE (V)	230	Avai. FLUX (lm)	1177
NOMINAL FLUX (lm)	950	LOR (%)	124.0
LAMPS INSIDE	1	TOTAL FLUX (lm)	1178
TEST VOLTAGE (V)	230	θ @50% (H,V)	180,329DEG

VERTICAL (DEG)	AREA FLUX DIAGRAM																UNIT:lm		Φ t	Φ a
	0.35	1.01	1.61	2.12	2.53	2.82	3.01	3.10	3.08	2.98	2.81	2.57	2.28	1.93	1.55	1.14	0.70	0.24	35.8	35.8
90	0.35	1.01	1.60	2.09	2.48	2.76	2.94	3.01	3.00	2.90	2.73	2.51	2.23	1.90	1.53	1.13	0.69	0.24	35.1	35.1
80	0.35	1.00	1.58	2.06	2.42	2.67	2.82	2.88	2.85	2.76	2.61	2.40	2.15	1.85	1.51	1.12	0.69	0.24	34.0	34.0
70	0.35	1.00	1.57	2.02	2.35	2.56	2.67	2.70	2.67	2.58	2.44	2.27	2.05	1.79	1.47	1.10	0.69	0.24	32.5	32.5
60	0.35	1.00	1.55	1.98	2.27	2.45	2.52	2.53	2.48	2.39	2.27	2.13	1.95	1.72	1.44	1.09	0.69	0.24	31.0	31.0
50	0.35	0.99	1.53	1.94	2.20	2.34	2.39	2.37	2.32	2.23	2.13	2.00	1.85	1.66	1.40	1.08	0.68	0.24	29.7	29.7
40	0.35	0.99	1.52	1.91	2.14	2.26	2.29	2.26	2.20	2.11	2.02	1.91	1.78	1.61	1.38	1.07	0.68	0.24	28.7	28.7
30	0.35	0.99	1.52	1.89	2.11	2.21	2.23	2.20	2.13	2.05	1.96	1.86	1.74	1.58	1.36	1.06	0.68	0.24	28.1	28.1
20	0.35	0.99	1.52	1.89	2.10	2.20	2.22	2.18	2.12	2.03	1.94	1.84	1.73	1.57	1.36	1.06	0.68	0.24	28.0	28.0
10	0.35	1.00	1.53	1.90	2.12	2.23	2.24	2.21	2.15	2.06	1.97	1.87	1.75	1.59	1.37	1.07	0.69	0.24	28.3	28.3
0	0.35	1.00	1.54	1.93	2.17	2.29	2.32	2.29	2.23	2.14	2.04	1.94	1.80	1.63	1.40	1.08	0.69	0.24	29.1	29.1
-10	0.35	1.01	1.56	1.98	2.25	2.39	2.44	2.42	2.36	2.27	2.17	2.05	1.89	1.70	1.44	1.10	0.70	0.24	30.3	30.3
-20	0.35	1.02	1.59	2.04	2.34	2.52	2.59	2.60	2.55	2.46	2.34	2.19	2.01	1.78	1.49	1.13	0.70	0.24	31.9	31.9
-30	0.35	1.02	1.62	2.11	2.46	2.68	2.79	2.82	2.78	2.69	2.55	2.37	2.15	1.87	1.54	1.15	0.71	0.24	33.9	33.9
-40	0.35	1.03	1.65	2.17	2.57	2.85	3.01	3.07	3.04	2.94	2.79	2.57	2.30	1.97	1.60	1.17	0.72	0.24	36.1	36.1
-50	0.35	1.04	1.68	2.23	2.68	3.01	3.21	3.31	3.29	3.19	3.01	2.76	2.44	2.06	1.65	1.20	0.72	0.24	38.1	38.1
-60	0.35	1.05	1.70	2.28	2.77	3.14	3.38	3.50	3.50	3.39	3.19	2.90	2.55	2.14	1.69	1.21	0.73	0.24	39.7	39.7
-70	0.35	1.06	1.72	2.32	2.83	3.22	3.49	3.62	3.63	3.52	3.30	3.00	2.62	2.18	1.71	1.23	0.73	0.24	40.8	40.8
-80	0.35	1.06	1.72	2.32	2.83	3.22	3.49	3.62	3.63	3.52	3.30	3.00	2.62	2.18	1.71	1.23	0.73	0.24	40.8	40.8
-90	0.35	1.06	1.72	2.32	2.83	3.22	3.49	3.62	3.63	3.52	3.30	3.00	2.62	2.18	1.71	1.23	0.73	0.24	40.8	40.8
HORIZONTAL (DEG)																				
Φ t	6.27	18.2	28.6	36.9	42.8	46.6	48.6	49.0	48.4	46.7	44.3	41.1	37.3	32.5	26.9	20.2	12.6	4.28	591	---
Φ a	6.27	18.2	28.6	36.9	42.8	46.6	48.6	49.0	48.4	46.7	44.3	41.1	37.3	32.5	26.9	20.2	12.6	4.28	---	591

one-half-peak spread: U:70.8,D:67.9 , L:97.1,R:115.1

NEMA Beam Type: Type 7

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:24 October 2022

γ Range: 0 - 180DEG

γ Interval: 2.5DEG

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

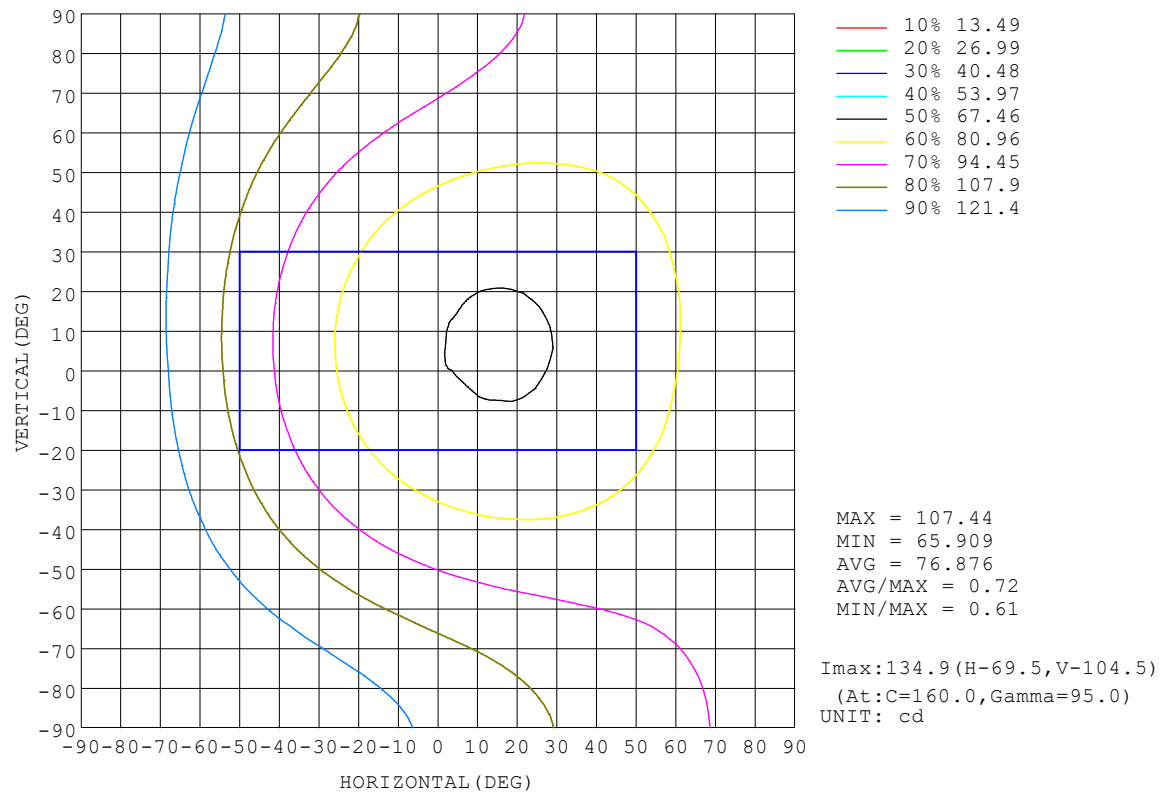
Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

ISOCANDELA DIAGRAM

NAME: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

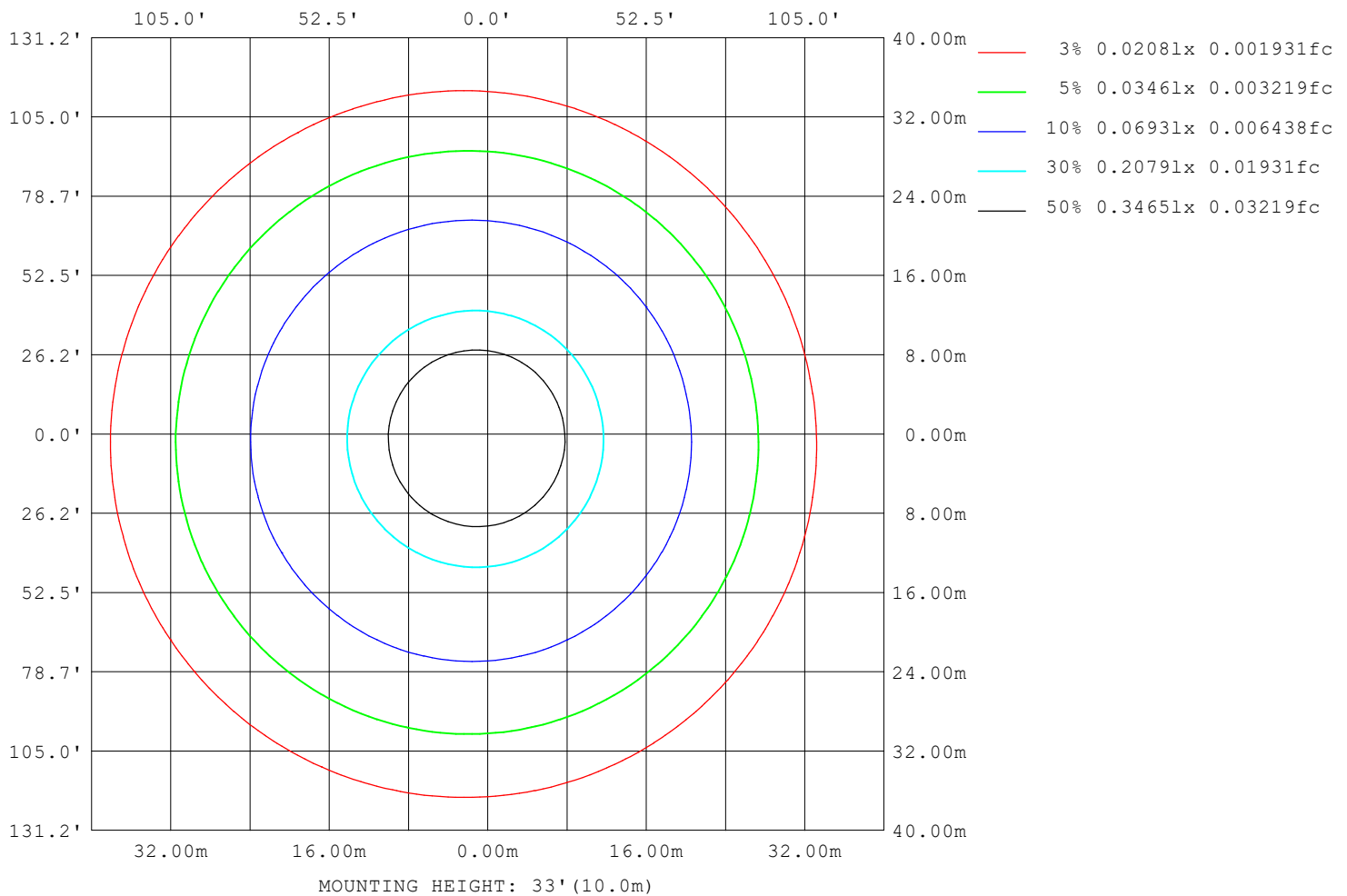


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:24 October 2022

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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:

ISOLUX DIAGRAM

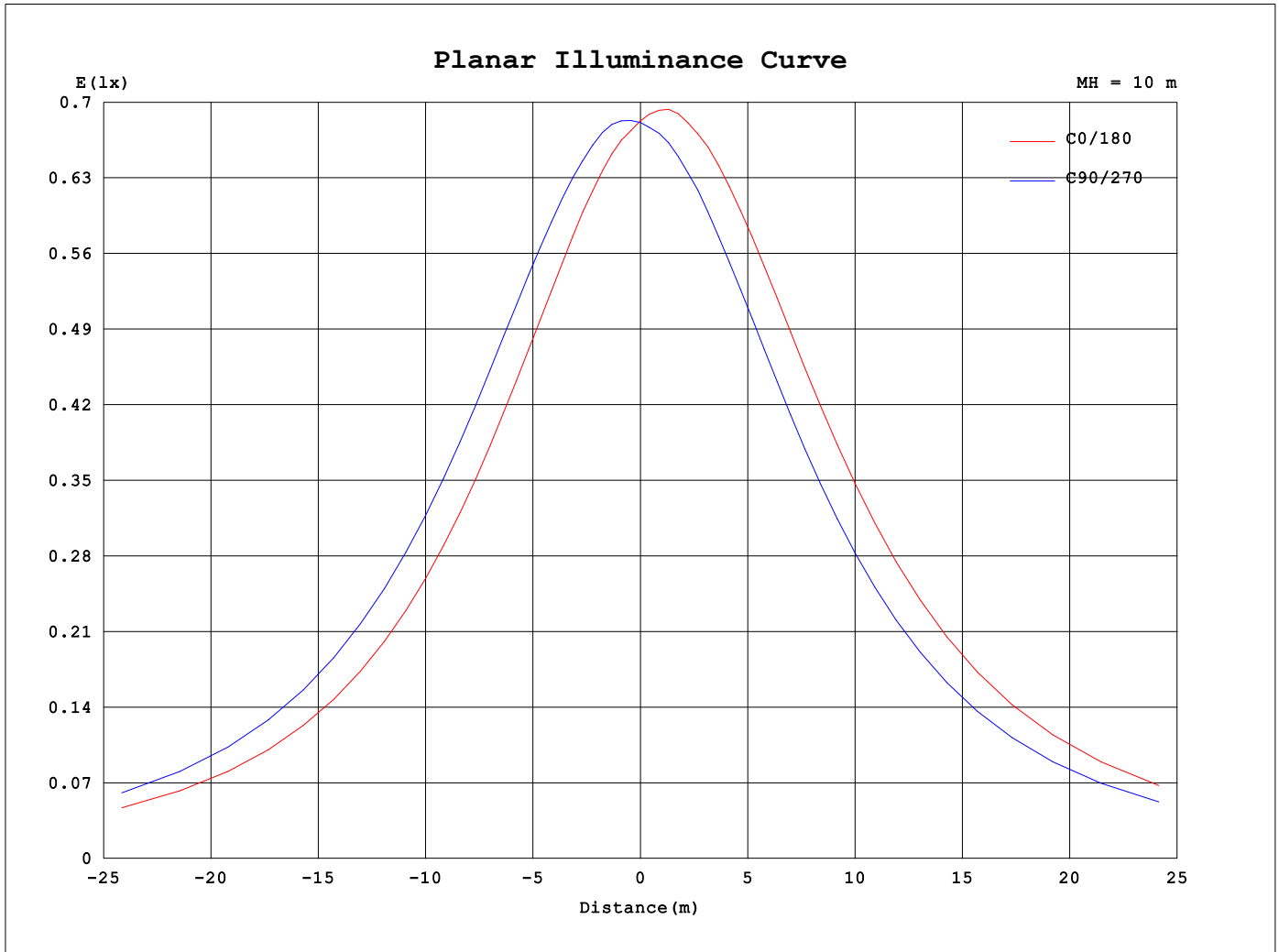
NAME: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 24 October 2022

γ Range: 0 - 180DEG
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

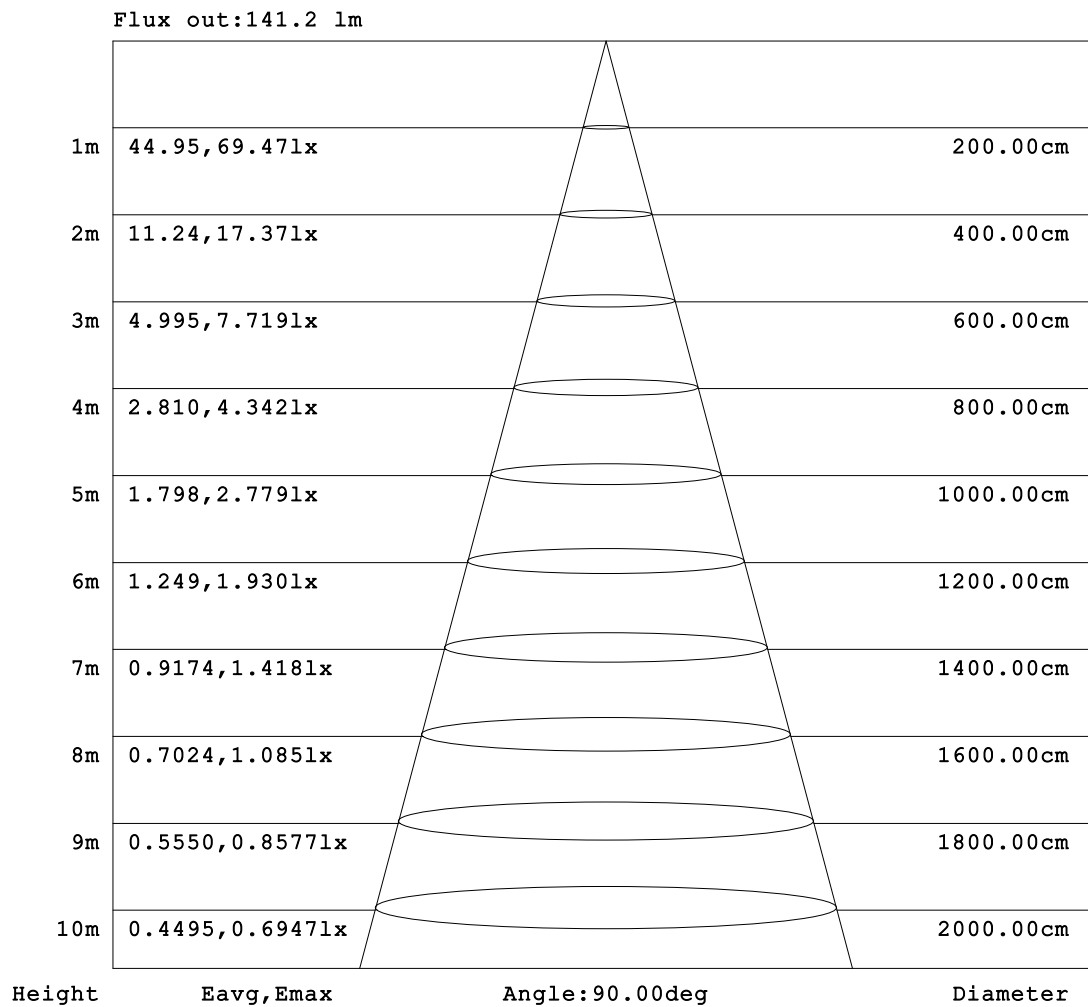


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 24 October 2022

γ Range: 0 - 180DEG
 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: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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: 24 October 2022

γ Range: 0 - 180DEG
 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: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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
-180	133	133	133	131	129	126	122	118	112	106	100	93.4	84.6	72.0	58.7	41.7	19.5	1.09	0.90
-170	133	133	133	132	130	127	123	119	114	108	102	95.1	86.9	77.9	66.1	53.2	38.4	24.6	16.6
-160	133	133	133	132	130	128	125	121	117	112	106	99.2	92.9	86.4	79.5	71.4	63.7	57.4	53.4
-150	133	133	133	133	132	130	127	124	120	116	112	107	101	96.0	91.4	88.0	84.5	80.6	77.6
-140	133	133	134	134	133	131	129	127	124	121	118	114	110	106	102	98.6	95.6	93.3	91.6
-130	133	133	134	134	134	133	131	130	128	126	123	120	118	115	112	109	106	104	102
-120	133	134	134	134	134	134	133	132	131	129	127	126	123	121	119	117	115	113	111
-110	133	133	134	135	135	135	134	134	133	132	131	129	128	126	124	122	120	118	116
-100	133	133	134	135	135	135	135	134	134	133	132	131	130	128	127	125	123	121	119
-90	133	133	134	134	135	134	134	134	133	132	131	130	129	128	126	124	123	121	119
-80	133	133	134	134	134	133	133	132	131	130	129	128	126	125	123	122	120	118	116
-70	133	133	133	133	133	132	131	130	128	127	125	124	122	120	118	116	114	112	111
-60	133	133	133	132	131	130	128	127	124	122	120	118	115	113	111	109	107	105	103
-50	133	133	132	131	129	128	125	123	120	117	114	111	108	105	103	100	97.9	95.9	94.2
-40	133	132	131	130	128	125	122	119	115	112	108	104	101	97.5	94.6	91.8	89.5	87.6	85.9
-30	133	132	131	129	126	123	119	115	111	107	102	98.2	94.5	91.0	87.8	85.1	82.6	80.6	78.9
-20	133	132	130	128	125	121	117	112	107	103	98.0	93.6	89.6	85.9	82.6	79.7	77.3	75.3	73.7
-10	133	132	130	127	124	120	115	110	105	99.7	94.8	90.4	86.2	82.4	79.1	76.3	73.9	72.0	70.4
0	133	132	129	127	123	119	114	109	104	98.2	93.2	88.7	84.4	80.6	77.4	74.4	72.2	70.1	68.3
10	133	131	129	126	123	118	114	108	103	98.0	92.9	88.3	84.1	80.3	77.0	74.2	71.7	69.7	68.0
20	133	131	129	126	123	119	114	109	104	98.8	94.0	89.4	85.4	81.6	78.3	75.4	73.0	71.0	69.4
30	133	131	129	126	123	119	115	110	106	101	96.4	92.0	88.1	84.5	81.4	78.6	76.1	74.1	72.6
40	133	131	129	127	124	120	116	112	108	104	99.8	95.9	92.2	88.8	85.8	83.0	80.7	78.7	77.2
50	133	131	129	127	124	121	118	115	111	108	104	101	97.3	94.2	91.4	88.9	86.6	84.7	83.1
60	133	131	130	128	125	123	120	117	114	111	108	105	102	99.8	97.3	95.0	93.0	91.1	89.5
70	133	131	130	128	126	124	122	119	117	114	112	109	107	105	102	100	98.5	96.7	95.1
80	133	131	130	129	127	125	123	121	119	117	114	112	110	108	106	104	102	101	98.9
90	133	132	130	129	128	126	124	122	120	118	116	114	112	110	108	106	104	102	101
100	133	132	131	129	128	126	124	122	121	118	116	114	112	110	108	106	104	102	101
110	133	132	131	130	128	126	124	122	120	118	116	113	111	109	106	104	102	99.9	98.0
120	133	132	131	130	128	126	124	122	119	116	114	111	108	105	102	100.0	97.6	95.5	93.6
130	133	132	131	130	128	126	123	120	117	114	111	107	104	100	97.2	94.1	91.3	88.9	86.8
140	133	132	131	130	128	125	122	119	115	111	107	103	98.4	93.9	89.5	85.4	81.8	78.9	76.7
150	133	133	132	130	128	125	122	118	113	109	103	97.8	92.5	86.5	80.8	75.7	71.2	67.7	64.7
160	133	133	132	130	128	125	121	117	112	106	100.0	94.0	88.0	80.3	71.8	62.7	54.2	46.9	42.5
170	133	133	132	131	128	125	121	117	111	105	98.4	93.1	85.0	73.9	61.5	47.7	31.4	18.1	11.0
180	133	133	133	131	129	126	122	118	112	106	100	93.4	84.6	72.0	58.7	41.7	19.5	1.09	0.90

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:24 October 2022

γ Range: 0 - 180DEG

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: 99LED834W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F60	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	0.93	6.73	18.4	32.8	46.1	58.0	66.0	70.9	74.5	78.5	81.8	84.3	86.2	87.9	89.2	90.0	90.2	90.1	
-170	17.2	21.6	31.9	44.1	54.1	62.5	69.5	73.9	76.3	80.1	83.1	85.4	87.1	88.6	89.7	90.4	90.4	90.1	
-160	51.8	52.3	55.1	60.6	65.4	69.5	74.5	77.6	80.0	82.9	85.2	86.9	88.2	89.4	90.3	90.7	90.5	90.1	
-150	75.9	75.3	75.3	75.0	76.0	78.0	80.8	82.9	84.8	86.5	87.7	88.8	89.7	90.4	90.9	91.0	90.6	90.1	
-140	88.8	87.4	86.7	86.4	86.9	87.5	88.2	88.9	89.6	90.1	90.6	91.0	91.3	91.6	91.5	91.3	90.7	90.1	
-130	100	98.8	97.7	96.7	95.9	95.3	94.7	94.3	93.9	93.7	93.4	93.2	92.9	92.6	92.2	91.6	90.8	90.1	
-120	109	107	105	104	102	101	99.9	98.8	97.7	96.8	95.9	95.1	94.3	93.5	92.6	91.7	90.9	90.1	
-110	114	113	111	109	107	105	104	102	101	99.2	97.8	96.5	95.2	94.0	92.9	91.8	90.9	90.1	
-100	117	115	114	112	110	108	106	104	102	100	98.6	97.0	95.5	94.1	92.9	91.8	90.9	90.1	
-90	117	115	113	112	110	108	106	104	102	100	98.5	96.9	95.5	94.1	92.9	91.8	90.9	90.1	
-80	114	113	111	109	107	106	104	102	101	99.0	97.5	96.1	94.9	93.7	92.7	91.6	90.8	90.1	
-70	109	107	106	104	103	102	100	98.9	97.8	96.7	95.6	94.6	93.7	92.8	92.1	91.3	90.7	90.1	
-60	101	100	98.8	97.7	96.8	95.9	95.1	94.5	94.0	93.5	93.0	92.6	92.2	91.8	91.4	91.0	90.6	90.1	
-50	92.8	91.7	90.7	90.1	89.7	89.3	89.2	89.3	89.5	89.7	90.0	90.2	90.4	90.6	90.5	90.5	90.4	90.1	
-40	84.6	83.6	83.0	82.7	82.6	82.8	83.3	84.0	84.8	85.8	86.8	87.7	88.5	89.2	89.7	90.0	90.2	90.1	
-30	77.7	76.9	76.5	76.4	76.6	77.1	78.0	79.2	80.6	82.2	83.7	85.3	86.7	87.9	88.9	89.6	90.0	90.1	
-20	72.4	71.6	71.3	71.4	71.9	72.7	73.9	75.4	77.2	79.2	81.2	83.2	85.1	86.8	88.1	89.2	89.8	90.1	
-10	69.1	68.3	68.0	68.0	68.7	69.8	71.1	72.7	74.7	77.0	79.3	81.7	83.9	85.9	87.5	88.8	89.7	90.1	
0	67.3	66.7	66.4	66.4	67.0	68.1	69.6	71.3	73.4	75.7	78.2	80.7	83.1	85.2	87.0	88.5	89.5	90.1	
10	66.9	66.3	66.0	66.1	66.7	67.8	69.2	70.9	73.0	75.4	77.9	80.4	82.8	85.0	86.8	88.3	89.4	90.1	
20	68.3	67.5	67.3	67.5	68.1	69.0	70.3	71.9	73.9	76.1	78.4	80.6	82.9	84.9	86.7	88.2	89.3	90.1	
30	71.4	70.7	70.3	70.4	70.7	71.5	72.6	74.1	75.8	77.6	79.5	81.6	83.5	85.2	86.8	88.1	89.3	90.1	
40	76.0	75.1	74.6	74.5	74.8	75.3	76.1	77.2	78.5	79.9	81.4	82.8	84.4	85.7	86.9	88.2	89.3	90.1	
50	81.8	80.8	80.2	79.8	79.7	79.9	80.3	80.9	81.6	82.5	83.4	84.4	85.3	86.4	87.3	88.3	89.3	90.1	
60	88.1	87.0	86.1	85.4	84.9	84.6	84.5	84.6	84.7	85.0	85.4	85.9	86.5	87.0	87.7	88.4	89.3	90.1	
70	93.6	92.3	91.1	90.1	89.3	88.6	88.1	87.7	87.4	87.2	87.2	87.3	87.4	87.7	88.1	88.6	89.3	90.1	
80	97.4	95.9	94.6	93.3	92.3	91.3	90.6	89.8	89.3	88.8	88.5	88.3	88.2	88.2	88.4	88.7	89.4	90.1	
90	99.1	97.6	96.2	94.9	93.7	92.6	91.7	90.8	90.2	89.5	89.1	88.7	88.6	88.5	88.6	88.8	89.4	90.1	
100	99.0	97.5	96.1	94.7	93.6	92.5	91.6	90.8	90.2	89.6	89.2	88.8	88.7	88.5	88.7	88.8	89.4	90.1	
110	96.4	94.9	93.6	92.4	91.5	90.6	89.9	89.4	89.0	88.8	88.6	88.6	88.6	88.6	88.8	88.9	89.5	90.1	
120	92.0	90.6	89.5	88.6	87.9	87.4	87.1	87.0	87.0	87.1	87.4	87.7	88.0	88.4	88.8	89.1	89.5	90.1	
130	85.3	84.2	83.4	83.2	83.1	83.2	83.5	84.0	84.5	85.1	85.8	86.6	87.3	88.1	88.7	89.2	89.6	90.1	
140	75.8	75.4	75.1	74.9	76.0	77.3	78.9	80.4	81.8	83.1	84.3	85.4	86.6	87.7	88.5	89.3	89.7	90.1	
150	63.4	63.2	64.7	66.5	67.7	69.9	73.1	76.0	78.8	81.0	82.9	84.5	86.0	87.3	88.6	89.5	89.9	90.1	
160	41.6	43.9	48.1	53.8	59.0	63.2	67.3	71.8	75.9	79.2	81.8	83.9	85.6	87.3	88.7	89.6	90.0	90.1	
170	12.8	20.7	31.1	41.6	51.2	59.2	65.0	69.4	74.1	78.2	81.4	83.8	85.8	87.5	88.9	89.8	90.1	90.1	
180	0.93	6.73	18.4	32.8	46.1	58.0	66.0	70.9	74.5	78.5	81.8	84.3	86.2	87.9	89.2	90.0	90.2	90.1	

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:24 October 2022

γ Range: 0 - 180DEG

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: