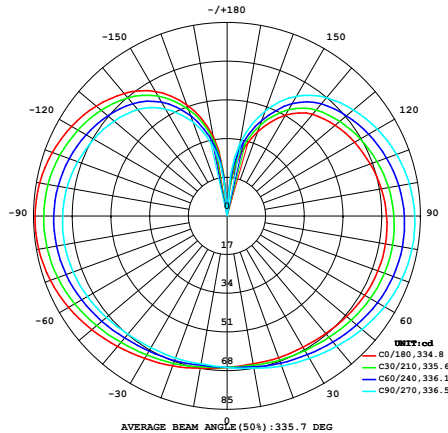


### LAMP PHOTOMETRIC REPORT

MODEL: 99LED838W		
POWER: 7.2W	VOLTAGE: 230V	WORKING VOLTAGE: 230V
MANUFACTURER: Elmark Industries JSC		

TOTAL FLUX: 892.65 lm



$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%
10	66.00	66.92	67.87	68.24	67.82	66.93	66.03	65.65	0- 10	6.371	6.371	0.71
20	66.27	68.15	70.15	70.98	70.11	68.28	66.40	65.48	10- 20	19.17	25.54	2.86
30	66.65	69.37	72.27	73.52	72.25	69.52	66.86	65.63	20- 30	31.88	57.42	6.43
40	67.43	70.96	74.79	76.45	74.84	71.28	67.84	66.27	30- 40	44.21	101.6	11.4
50	68.61	72.75	77.40	79.52	77.65	73.43	69.32	67.36	40- 50	55.97	157.6	17.7
60	69.77	74.42	79.82	82.41	80.43	75.55	70.83	68.45	50- 60	66.63	224.2	25.1
70	70.56	75.57	81.63	84.69	82.66	77.23	71.97	69.19	60- 70	75.44	299.7	33.6
80	70.71	75.97	82.56	86.04	84.06	78.22	72.51	69.38	70- 80	81.58	381.2	42.7
90	70.09	75.49	82.44	86.24	84.39	78.36	72.32	68.89	80- 90	84.46	465.7	52.2
100	68.84	74.28	81.36	85.35	83.68	77.68	71.48	67.86	90-100	83.86	549.6	61.6
110	66.96	72.26	79.25	83.23	81.76	76.01	69.84	66.16	100-110	79.81	629.4	70.5
120	64.76	69.70	76.29	80.14	78.90	73.61	67.66	64.14	110-120	72.67	702.0	78.6
130	62.02	66.56	72.55	76.18	75.17	70.47	64.89	61.58	120-130	63.15	765.2	85.7
140	58.39	62.58	67.91	71.14	70.33	66.20	61.08	57.90	130-140	51.65	816.9	91.5
150	51.23	55.40	60.70	63.78	63.24	59.39	54.32	51.11	140-150	38.55	855.4	95.8
160	39.35	43.69	49.07	52.18	51.95	48.53	43.82	40.52	150-160	24.24	879.6	98.5
170	23.54	26.79	31.99	35.42	35.39	31.98	28.60	24.59	160-170	11.12	890.8	99.8
180	0.8674	0.8810	0.8846	0.8770	0.8702	0.8823	0.8873	0.8770	170-180	1.883	892.6	100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:21 October 2022

 $\gamma$  Range: 0 - 180DEG

 $\gamma$  Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.265m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

MODEL: 99LED838W		
POWER: 7.2W	VOLTAGE: 230V	WORKING VOLTAGE: 230V
MANUFACTURER: Elmark Industries JSC		

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6
5	66.2	66.2	66.3	66.5	66.6	66.7	66.8	66.9	67.0	67.1	67.2	67.3	67.3	67.4	67.4	67.3	67.3	67.2	67.2
10	66.0	66.2	66.4	66.6	66.8	67.0	67.3	67.5	67.7	67.9	68.0	68.1	68.2	68.2	68.2	68.2	68.1	68.0	67.8
15	66.1	66.4	66.7	67.0	67.4	67.7	68.1	68.4	68.7	69.0	69.2	69.4	69.5	69.6	69.6	69.5	69.4	69.2	69.0
20	66.3	66.6	67.0	67.5	67.9	68.4	68.8	69.3	69.7	70.2	70.5	70.7	70.9	71.0	71.0	70.9	70.7	70.5	70.1
25	66.4	66.8	67.3	67.8	68.4	69.0	69.6	70.2	70.7	71.2	71.6	71.9	72.2	72.3	72.3	72.1	71.9	71.6	71.2
30	66.6	67.1	67.7	68.3	69.0	69.7	70.4	71.1	71.7	72.3	72.7	73.1	73.4	73.5	73.5	73.4	73.1	72.8	72.2
35	66.9	67.5	68.1	68.9	69.7	70.5	71.3	72.1	72.8	73.5	74.1	74.5	74.8	75.0	75.0	74.8	74.6	74.1	73.6
40	67.4	68.1	68.8	69.6	70.5	71.4	72.3	73.2	74.0	74.8	75.4	75.9	76.3	76.4	76.5	76.3	75.9	75.5	74.8
45	68.0	68.7	69.5	70.4	71.4	72.4	73.4	74.4	75.3	76.1	76.8	77.4	77.8	78.0	78.0	77.8	77.5	76.9	76.2
50	68.6	69.3	70.2	71.2	72.2	73.3	74.4	75.5	76.5	77.4	78.2	78.8	79.3	79.5	79.5	79.3	79.0	78.4	77.7
55	69.2	70.0	70.9	71.9	73.0	74.2	75.4	76.5	77.7	78.7	79.5	80.2	80.7	81.0	81.0	80.8	80.5	79.9	79.1
60	69.8	70.6	71.5	72.6	73.8	75.0	76.3	77.5	78.7	79.8	80.7	81.5	82.0	82.3	82.5	82.3	81.9	81.2	80.4
65	70.2	71.1	72.1	73.2	74.4	75.7	77.1	78.4	79.7	80.8	81.8	82.6	83.2	83.6	83.7	83.5	83.1	82.5	81.6
70	70.6	71.4	72.4	73.6	74.9	76.3	77.6	79.0	80.4	81.6	82.7	83.6	84.2	84.6	84.8	84.6	84.2	83.5	82.7
75	70.7	71.6	72.6	73.8	75.2	76.6	78.1	79.5	80.9	82.2	83.3	84.3	85.0	85.4	85.6	85.4	85.0	84.4	83.5
80	70.7	71.6	72.6	73.9	75.2	76.7	78.2	79.7	81.2	82.6	83.7	84.7	85.5	86.0	86.1	86.0	85.6	84.9	84.1
85	70.5	71.4	72.4	73.7	75.1	76.6	78.1	79.7	81.2	82.6	83.9	84.9	85.7	86.2	86.4	86.3	85.9	85.2	84.4
90	70.1	70.9	72.0	73.3	74.7	76.3	77.9	79.4	81.0	82.4	83.7	84.8	85.6	86.1	86.4	86.3	85.9	85.2	84.4
95	69.5	70.4	71.5	72.8	74.2	75.8	77.4	79.0	80.6	82.0	83.3	84.4	85.3	85.8	86.1	86.0	85.7	85.0	84.2
100	68.8	69.7	70.8	72.0	73.5	75.0	76.7	78.3	79.9	81.4	82.7	83.8	84.7	85.2	85.5	85.5	85.1	84.5	83.7
105	68.0	68.8	69.9	71.1	72.6	74.1	75.7	77.3	78.9	80.4	81.8	82.8	83.7	84.3	84.6	84.6	84.3	83.7	82.9
110	67.0	67.8	68.8	70.1	71.5	73.0	74.6	76.2	77.8	79.3	80.6	81.6	82.5	83.1	83.4	83.4	83.1	82.5	81.8
115	65.9	66.6	67.7	68.9	70.3	71.8	73.3	74.9	76.4	77.9	79.2	80.2	81.1	81.6	82.0	81.9	81.7	81.1	80.4
120	64.8	65.5	66.5	67.7	69.0	70.4	71.9	73.4	74.9	76.3	77.5	78.6	79.4	80.0	80.3	80.3	80.1	79.6	78.9
125	63.5	64.2	65.2	66.3	67.6	68.9	70.3	71.8	73.2	74.5	75.8	76.7	77.6	78.1	78.5	78.5	78.3	77.8	77.2
130	62.0	62.7	63.6	64.7	65.9	67.2	68.5	69.9	71.3	72.6	73.7	74.7	75.5	76.0	76.3	76.4	76.2	75.7	75.2
135	60.4	61.0	61.9	62.9	64.1	65.3	66.6	67.9	69.2	70.4	71.5	72.3	73.1	73.6	73.9	74.0	73.8	73.4	72.9
140	58.4	59.0	59.9	60.9	62.0	63.2	64.4	65.6	66.8	67.9	68.9	69.8	70.5	71.0	71.3	71.4	71.2	70.8	70.3
145	55.3	56.1	56.9	57.9	59.0	60.1	61.3	62.6	63.7	64.8	65.7	66.6	67.2	67.8	68.1	68.2	68.0	67.7	67.2
150	51.2	52.0	52.9	53.9	54.9	55.9	57.0	58.3	59.7	60.7	61.6	62.4	63.1	63.6	63.9	64.2	64.1	63.6	63.2
155	45.7	46.7	47.7	48.6	49.6	50.4	51.1	52.7	54.1	55.5	56.4	57.2	57.8	58.4	58.7	58.9	58.7	58.4	58.1
160	39.3	40.2	41.4	42.5	43.3	44.1	44.8	46.0	47.7	49.1	50.3	51.1	51.5	52.0	52.4	52.5	52.4	52.2	51.9
165	31.9	32.7	33.5	34.6	35.5	36.5	37.4	38.3	39.9	41.5	42.7	43.6	44.1	44.6	44.9	45.1	45.1	44.9	44.7
170	23.5	24.1	24.7	25.5	26.3	27.3	28.1	29.1	30.3	32.0	33.2	34.1	34.8	35.3	35.5	35.7	35.7	35.6	35.4
175	10.3	10.6	11.0	11.7	12.2	13.1	14.2	15.8	17.2	18.2	18.8	19.5	19.8	20.1	20.2	20.3	20.1	20.0	19.4
180	0.87	0.87	0.87	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.86	0.87

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:21 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

MODEL: 99LED838W		
POWER: 7.2W	VOLTAGE: 230V	WORKING VOLTAGE: 230V
MANUFACTURER: Elmark Industries JSC		

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6	66.6		
5	67.1	66.9	66.8	66.7	66.6	66.5	66.4	66.3	66.2	66.1	66.0	66.0	66.0	66.0	66.0	66.0	66.1		
10	67.7	67.4	67.2	67.0	66.8	66.6	66.4	66.2	66.0	65.9	65.8	65.7	65.6	65.6	65.6	65.7	65.7	65.8	
15	68.7	68.4	68.1	67.8	67.4	67.1	66.8	66.5	66.2	66.0	65.8	65.6	65.6	65.6	65.6	65.6	65.7	65.9	
20	69.7	69.4	69.0	68.5	68.0	67.6	67.2	66.8	66.4	66.1	65.8	65.6	65.5	65.5	65.6	65.7	65.9		
25	70.7	70.2	69.7	69.2	68.6	68.0	67.5	67.0	66.5	66.1	65.8	65.6	65.5	65.4	65.5	65.7	65.9		
30	71.7	71.1	70.5	69.8	69.2	68.6	68.0	67.4	66.9	66.4	66.0	65.8	65.7	65.6	65.7	65.9	66.2		
35	72.9	72.3	71.5	70.8	70.0	69.2	68.5	67.9	67.3	66.8	66.3	66.0	65.9	65.8	65.9	66.1	66.4		
40	74.1	73.4	72.5	71.7	70.9	70.0	69.2	68.5	67.8	67.3	66.8	66.5	66.3	66.2	66.3	66.5	66.9		
45	75.5	74.6	73.7	72.8	71.9	71.0	70.1	69.3	68.6	68.0	67.4	67.1	66.8	66.7	66.8	67.0	67.4		
50	76.8	75.9	74.9	73.9	72.9	71.9	71.0	70.1	69.3	68.7	68.1	67.7	67.4	67.3	67.3	67.6	68.0		
55	78.2	77.2	76.1	75.1	74.0	72.9	71.9	71.0	70.1	69.4	68.8	68.3	68.0	67.9	67.9	68.1	68.5		
60	79.5	78.4	77.3	76.1	75.0	73.8	72.7	71.7	70.8	70.1	69.4	68.9	68.5	68.4	68.4	68.6	69.1		
65	80.6	79.5	78.3	77.1	75.9	74.6	73.5	72.4	71.5	70.6	69.9	69.4	69.0	68.8	68.8	69.0	69.5		
70	81.6	80.4	79.2	77.9	76.6	75.3	74.1	73.0	72.0	71.1	70.3	69.7	69.3	69.1	69.1	69.3	69.8		
75	82.4	81.2	79.9	78.5	77.1	75.8	74.5	73.4	72.3	71.4	70.6	69.9	69.5	69.2	69.2	69.5	69.9		
80	83.0	81.7	80.3	78.9	77.5	76.1	74.8	73.6	72.5	71.5	70.7	70.0	69.5	69.3	69.2	69.4	69.9		
85	83.3	81.9	80.6	79.1	77.7	76.3	74.9	73.7	72.5	71.5	70.6	69.9	69.4	69.1	69.0	69.2	69.7		
90	83.3	82.0	80.6	79.1	77.6	76.2	74.8	73.5	72.3	71.3	70.3	69.6	69.0	68.7	68.7	68.9	69.3		
95	83.1	81.8	80.4	78.9	77.4	75.9	74.5	73.2	72.0	70.9	70.0	69.2	68.6	68.3	68.2	68.4	68.8		
100	82.6	81.3	79.9	78.4	76.9	75.4	74.0	72.7	71.5	70.4	69.4	68.6	68.0	67.7	67.6	67.7	68.1		
105	81.8	80.6	79.2	77.7	76.2	74.7	73.3	72.0	70.8	69.6	68.7	67.9	67.3	66.9	66.7	66.9	67.2		
110	80.7	79.5	78.2	76.7	75.3	73.8	72.4	71.1	69.8	68.7	67.8	66.9	66.3	66.0	65.8	65.9	66.3		
115	79.5	78.3	77.0	75.6	74.2	72.7	71.4	70.0	68.8	67.7	66.7	65.9	65.4	65.0	64.8	64.9	65.2		
120	78.0	76.8	75.6	74.3	72.9	71.5	70.2	68.9	67.7	66.6	65.6	64.9	64.3	64.0	63.8	63.8	64.1		
125	76.3	75.2	74.1	72.8	71.5	70.1	68.8	67.6	66.4	65.3	64.5	63.7	63.2	62.8	62.6	62.7	62.9		
130	74.3	73.4	72.3	71.1	69.8	68.5	67.3	66.0	64.9	63.9	63.0	62.3	61.8	61.4	61.2	61.2	61.5		
135	72.1	71.2	70.2	69.1	67.9	66.7	65.4	64.2	63.1	62.2	61.3	60.6	60.1	59.7	59.5	59.6	59.8		
140	69.6	68.7	67.8	66.8	65.6	64.5	63.3	62.1	61.1	60.2	59.3	58.6	58.1	57.7	57.5	57.6	57.8		
145	66.5	65.7	64.8	63.8	62.7	61.6	60.4	59.3	58.2	57.3	56.4	55.7	55.1	54.8	54.6	54.7	54.9		
150	62.6	61.8	60.9	59.9	58.9	57.8	56.6	55.5	54.3	53.4	52.5	51.8	51.3	51.0	50.9	50.9	50.5		
155	57.5	56.8	55.9	55.0	53.9	52.8	51.6	50.5	49.4	48.5	47.6	46.9	46.4	46.1	45.6	44.9	44.9		
160	51.4	50.8	49.9	49.1	48.0	46.8	45.6	44.8	43.8	42.9	42.0	41.4	40.8	40.2	39.1	38.5	38.9		
165	44.2	43.6	42.7	41.7	40.8	39.7	38.7	37.7	36.9	36.0	35.2	34.6	33.8	32.8	31.6	30.7	30.6		
170	34.8	34.1	33.1	32.3	31.7	30.9	30.2	29.4	28.6	27.8	26.9	26.0	25.0	24.2	23.2	22.7	22.0		
175	19.1	18.9	18.4	18.0	17.3	16.9	16.2	15.6	14.8	14.2	13.5	13.1	12.5	12.2	11.7	10.8	9.75		
180	0.88	0.87	0.88	0.88	0.88	0.88	0.88	0.88	0.89	0.88	0.88	0.88	0.88	0.88	0.87	0.87	0.86		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:21 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: