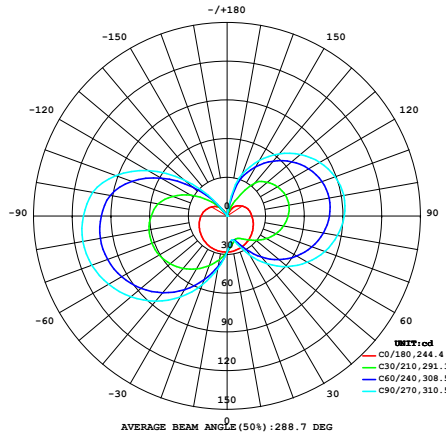


LAMP PHOTOMETRIC REPORT

MODEL: 95MALIA12LED/BL		
POWER: 12W	VOLTAGE: 230V	WORKING VOLTAGE: 230V
MANUFACTURER: Elmark Industries JSC		

TOTAL FLUX: 627.30 lm



$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%
10	27.70	21.12	19.21	21.28	28.05	37.08	41.27	36.68	0- 10	2.723	2.723	0.43
20	27.11	19.62	23.06	19.25	27.83	47.33	56.97	46.38	10- 20	8.834	11.56	1.84
30	26.29	24.85	34.95	23.84	27.31	57.59	72.47	56.04	20- 30	17.09	28.65	4.57
40	25.27	33.18	48.53	31.57	26.53	66.75	86.22	64.61	30- 40	27.72	56.37	8.99
50	24.12	42.16	60.98	40.21	25.53	74.15	97.49	71.51	40- 50	39.63	96.01	15.3
60	22.92	50.22	71.82	48.05	24.38	79.45	106.0	76.42	50- 60	51.39	147.4	23.5
70	21.68	56.88	80.66	54.56	23.11	82.41	111.7	79.11	60- 70	61.61	209.0	33.3
80	20.42	61.88	87.07	59.49	21.75	82.79	113.6	79.37	70- 80	69.01	278.0	44.3
90	19.15	65.05	90.88	62.66	20.28	80.33	111.4	76.92	80- 90	72.55	350.6	55.9
100	18.37	66.30	91.92	63.93	18.75	75.20	105.8	71.96	90-100	71.81	422.4	67.3
110	16.90	64.82	89.17	62.54	16.62	63.34	91.90	60.49	100-110	65.74	488.1	77.8
120	14.89	60.80	83.18	58.69	14.23	46.20	70.47	43.88	110-120	54.12	542.2	86.4
130	12.49	54.55	74.29	52.70	11.61	26.80	43.78	25.29	120-130	39.56	581.8	92.7
140	9.995	46.43	62.91	44.86	9.048	10.25	14.77	9.748	130-140	24.99	606.8	96.7
150	5.045	33.40	49.54	35.36	3.376	1.300	0.3883	1.348	140-150	13.01	619.8	98.8
160	0.4602	21.35	34.67	21.63	0.7891	0.3705	0.3576	0.3501	150-160	5.837	625.6	99.7
170	0.3987	0.4852	5.291	0.5002	0.3959	0.3677	0.3548	0.3571	160-170	1.644	627.3	100
180	0	0	0	0	0	0	0	0	170-180	0.0230	627.3	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:04 January 2023

$\gamma$  Range: 0 - 170DEG  
 $\gamma$  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

MODEL: 95MALIA12LED/BL		
POWER: 12W	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	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0
5	27.9	26.9	26.0	25.2	24.5	23.9	23.5	23.1	23.0	22.9	23.0	23.2	23.5	24.0	24.6	25.4	26.2	27.1	28.1
10	27.7	25.8	24.2	22.7	21.6	20.7	20.0	19.5	19.3	19.2	19.3	19.5	20.1	20.8	21.8	23.0	24.5	26.2	28.1
15	27.4	24.7	22.5	20.6	19.3	19.0	19.1	19.4	19.6	19.6	19.5	19.2	19.0	18.9	19.4	20.9	22.8	25.2	28.0
20	27.1	23.7	21.0	19.2	19.2	20.0	21.2	22.2	22.9	23.1	22.8	21.9	20.8	19.6	18.9	19.2	21.4	24.2	27.8
25	26.7	22.7	19.6	19.2	20.6	22.7	25.1	26.9	28.2	28.4	27.9	26.4	24.4	22.0	19.9	18.8	20.0	23.3	27.6
30	26.3	21.7	19.1	20.2	23.1	26.6	30.1	32.7	34.6	35.0	34.2	32.1	29.2	25.6	22.1	19.5	19.0	22.4	27.3
35	25.8	20.8	19.2	21.9	26.3	31.2	35.9	39.2	41.4	41.8	41.0	38.5	34.8	29.9	25.0	20.8	18.8	21.5	26.9
40	25.3	20.0	19.9	24.1	30.1	36.3	41.7	45.5	48.0	48.5	47.6	44.7	40.5	34.8	28.4	22.6	19.1	20.7	26.5
45	24.7	19.3	20.8	26.6	34.1	41.3	47.4	51.6	54.3	54.9	53.9	50.7	46.0	39.7	32.1	24.9	19.7	19.9	26.1
50	24.1	19.1	22.1	29.4	38.2	46.1	52.7	57.3	60.3	61.0	59.8	56.4	51.3	44.3	36.1	27.4	20.7	19.2	25.5
55	23.5	19.2	23.6	32.3	42.1	50.6	57.7	62.7	65.9	66.6	65.4	61.7	56.2	48.7	39.8	30.0	21.9	18.9	25.0
60	22.9	19.4	25.2	35.2	45.7	54.8	62.3	67.6	71.0	71.8	70.5	66.6	60.7	52.8	43.3	32.6	23.2	18.8	24.4
65	22.3	19.7	26.9	38.0	49.0	58.5	66.4	72.1	75.7	76.5	75.1	71.0	64.8	56.4	46.5	35.3	24.6	18.9	23.8
70	21.7	20.2	28.5	40.4	51.9	61.8	70.1	76.0	79.8	80.7	79.2	74.9	68.4	59.7	49.4	37.7	26.1	19.1	23.1
75	21.0	20.7	30.1	42.6	54.5	64.7	73.2	79.4	83.3	84.2	82.6	78.2	71.5	62.6	51.9	39.8	27.5	19.4	22.4
80	20.4	21.3	31.6	44.5	56.6	67.1	75.9	82.1	86.1	87.1	85.5	81.0	74.1	64.9	54.1	41.7	28.8	19.8	21.7
85	19.8	21.9	32.8	46.1	58.4	69.0	77.9	84.3	88.3	89.3	87.6	83.1	76.2	66.8	55.8	43.2	30.0	20.3	21.0
90	19.2	22.5	33.9	47.4	59.7	70.4	79.4	85.8	89.8	90.9	89.2	84.6	77.6	68.2	57.1	44.5	31.0	20.7	20.3
95	18.8	23.1	34.9	48.3	60.6	71.3	80.2	86.6	90.7	91.8	90.0	85.4	78.5	69.1	58.0	45.5	32.0	21.2	19.6
100	18.4	23.5	35.5	48.8	61.0	71.6	80.4	86.7	90.8	91.9	90.2	85.6	78.7	69.4	58.5	46.0	32.6	21.5	18.7
105	17.7	23.5	35.6	48.7	60.7	71.1	79.8	86.0	90.0	91.0	89.3	84.9	78.1	69.0	58.2	45.9	32.7	21.4	17.7
110	16.9	23.3	35.2	48.0	59.7	69.9	78.4	84.4	88.2	89.2	87.6	83.3	76.7	67.8	57.3	45.3	32.4	21.2	16.6
115	16.0	22.9	34.5	46.9	58.2	68.0	76.1	82.0	85.6	86.5	85.1	80.9	74.6	66.0	55.8	44.2	31.8	20.8	15.5
120	14.9	22.1	33.5	45.3	56.1	65.5	73.2	78.8	82.3	83.2	81.8	77.8	71.7	63.5	53.9	42.8	30.8	20.1	14.2
125	13.7	21.2	32.0	43.3	53.5	62.4	69.7	74.9	78.2	79.1	77.7	74.0	68.2	60.5	51.4	40.9	29.6	19.2	12.9
130	12.5	20.0	30.3	40.8	50.4	58.7	65.5	70.4	73.5	74.3	73.0	69.5	64.2	57.0	48.4	38.6	28.0	18.1	11.6
135	11.2	18.5	27.8	38.0	46.9	54.5	60.8	65.3	68.2	68.9	67.7	64.5	59.6	52.9	45.0	36.0	26.2	16.7	10.3
140	9.99	16.0	22.1	33.6	42.9	49.9	55.6	59.7	62.2	62.9	61.8	58.9	54.5	48.5	41.3	33.0	23.3	14.6	9.05
145	8.03	12.7	14.2	24.6	36.9	44.8	49.9	53.6	55.9	56.4	55.5	52.9	48.9	43.6	37.1	29.3	17.3	11.8	6.66
150	5.04	8.11	7.82	15.9	28.7	38.1	43.9	47.1	49.0	49.5	48.7	46.5	43.0	38.3	32.4	23.5	9.90	7.96	3.38
155	1.80	2.68	2.26	10.6	22.5	31.6	37.4	40.2	41.9	42.3	41.6	39.7	36.7	32.8	26.5	15.3	3.18	3.62	1.09
160	0.46	0.51	0.45	5.41	16.8	25.8	30.7	33.0	34.4	34.7	34.1	32.6	30.1	25.9	17.4	5.54	0.64	0.82	0.79
165	0.44	0.84	0.44	0.46	4.60	11.9	18.3	22.8	24.7	25.3	24.6	22.5	17.9	11.4	4.29	0.48	0.46	0.87	0.62
170	0.40	1.40	0.96	0.53	0.47	0.50	1.76	3.48	4.86	5.29	4.77	3.33	1.64	0.51	0.49	0.58	1.08	1.10	0.40
175	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
180	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

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

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

MODEL: 95MALIA12LED/BL		
POWER: 12W	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	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0		
5	29.1	30.1	31.1	31.9	32.7	33.4	33.8	34.1	34.2	34.1	33.8	33.2	32.6	31.8	30.9	29.9	28.9		
10	30.1	32.2	34.3	36.2	38.0	39.4	40.5	41.1	41.3	41.0	40.2	39.1	37.6	35.8	33.8	31.7	29.7		
15	31.1	34.3	37.6	40.7	43.5	45.9	47.6	48.7	49.0	48.5	47.3	45.4	42.9	40.0	36.8	33.6	30.4		
20	31.9	36.4	40.9	45.3	49.3	52.7	55.1	56.6	57.0	56.3	54.6	51.9	48.4	44.3	39.9	35.4	31.0		
25	32.7	38.4	44.2	50.0	55.1	59.4	62.5	64.4	64.9	64.1	61.8	58.4	53.9	48.6	42.9	37.1	31.5		
30	33.4	40.2	47.4	54.5	60.7	65.9	69.6	71.9	72.5	71.5	68.8	64.7	59.3	52.8	45.7	38.6	32.0		
35	33.9	41.9	50.4	58.7	66.0	72.0	76.3	79.0	79.6	78.5	75.3	70.6	64.3	56.8	48.4	40.0	32.3		
40	34.3	43.4	53.2	62.6	70.9	77.7	82.5	85.5	86.2	84.9	81.4	76.1	68.9	60.3	50.9	41.2	32.4		
45	34.5	44.7	55.6	66.1	75.3	82.8	88.1	91.4	92.2	90.8	86.8	81.0	73.0	63.6	53.0	42.3	32.5		
50	34.6	45.8	57.7	69.2	79.1	87.3	93.1	96.7	97.5	95.9	91.7	85.3	76.7	66.4	54.8	43.0	32.4		
55	34.6	46.5	59.4	71.7	82.4	91.2	97.4	101	102	100	95.8	89.0	79.8	68.7	56.3	43.6	32.2		
60	34.4	47.0	60.7	73.8	85.1	94.4	101	105	106	104	99.3	92.1	82.3	70.6	57.4	43.9	31.9		
65	34.0	47.2	61.6	75.3	87.2	96.9	104	108	109	107	102	94.5	84.2	71.9	58.1	43.9	31.5		
70	33.6	47.1	62.1	76.3	88.5	98.6	106	111	112	110	104	96.1	85.5	72.8	58.4	43.7	30.9		
75	32.9	46.7	62.0	76.6	89.2	99.6	107	112	113	111	105	97.0	86.1	73.0	58.3	43.3	30.3		
80	32.1	46.0	61.5	76.3	89.2	99.8	107	112	114	111	106	97.2	86.0	72.7	57.7	42.5	29.5		
85	31.1	45.0	60.5	75.4	88.4	99.1	107	112	113	111	105	96.5	85.2	71.8	56.7	41.4	28.6		
90	30.0	43.6	58.9	73.8	86.8	97.5	105	110	111	109	103	95.0	83.6	70.2	55.1	40.1	27.5		
95	28.9	42.0	57.1	71.9	84.8	95.5	103	108	109	107	101	92.9	81.6	68.3	53.4	38.7	26.6		
100	27.4	39.9	54.4	68.8	81.5	92.1	99.7	105	106	104	98.0	89.7	78.5	65.4	50.8	36.7	25.2		
105	25.3	36.7	50.2	64.0	76.2	86.5	93.9	98.8	100.0	97.9	92.3	84.2	73.3	60.7	46.8	33.8	23.4		
110	22.9	32.8	44.9	57.6	69.1	78.8	86.0	90.7	91.9	89.9	84.5	76.7	66.4	54.6	41.8	30.3	21.2		
115	20.2	28.5	38.8	50.1	60.5	69.5	76.3	80.9	82.0	80.2	74.9	67.6	58.0	47.3	36.1	26.3	18.8		
120	17.3	23.9	32.3	41.7	50.7	58.9	65.2	69.5	70.5	68.8	63.9	57.0	48.5	39.3	30.0	22.2	16.3		
125	14.4	19.3	25.6	32.9	40.2	47.1	52.8	56.7	57.6	56.1	51.7	45.5	38.3	30.9	23.8	18.0	13.7		
130	11.7	15.0	19.2	24.2	29.4	34.9	39.7	43.0	43.8	42.4	38.6	33.5	27.9	22.7	17.9	14.1	11.2		
135	9.21	11.0	13.5	16.3	19.2	22.8	26.2	28.7	29.3	28.2	25.3	21.8	18.2	15.4	12.7	10.5	8.93		
140	7.05	7.46	8.58	9.77	10.7	12.1	13.3	14.5	14.8	14.2	12.8	11.6	10.2	9.29	8.16	7.17	6.67		
145	5.21	4.38	4.60	4.75	4.64	4.50	4.03	2.88	2.16	3.08	4.09	4.46	4.24	4.42	3.91	3.67	4.20		
150	3.73	2.15	1.80	1.38	1.22	0.39	0.53	0.37	0.39	0.36	0.65	0.36	1.11	1.59	1.74	1.94	3.07		
155	1.86	0.87	0.60	0.46	0.39	0.36	0.37	0.36	0.37	0.35	0.35	0.34	0.35	0.46	0.58	0.51	1.49		
160	0.56	0.39	0.38	0.37	0.37	0.37	0.36	0.36	0.36	0.35	0.35	0.35	0.34	0.36	0.36	0.37	0.47		
165	0.41	0.37	0.37	0.37	0.37	0.37	0.36	0.36	0.35	0.36	0.34	0.35	0.34	0.36	0.36	0.37	0.39		
170	0.39	0.38	0.37	0.37	0.37	0.37	0.36	0.36	0.35	0.36	0.35	0.35	0.35	0.36	0.36	0.37	0.39		
175	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		
180	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		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

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: