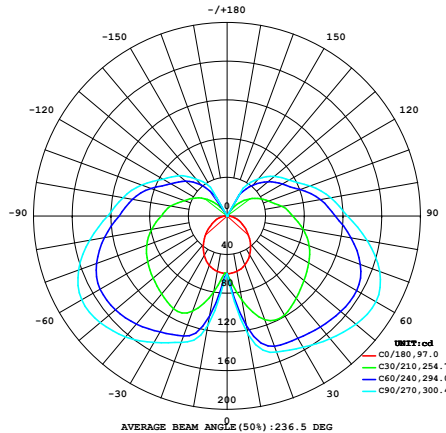


LAMP PHOTOMETRIC REPORT

MODEL: 99LBL12/CH		
POWER: 12W	VOLTAGE: 230V	WORKING VOLTAGE: 230V
MANUFACTURER: Elmark Industries JSC		

TOTAL FLUX: 978.64 lm



$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%
10	58.29	103.0	124.0	102.4	58.39	93.53	114.2	95.51	0- 10	7.710	7.710	0.79
20	54.01	133.3	149.7	133.5	54.30	123.2	139.0	124.5	10- 20	30.90	38.61	3.95
30	46.87	134.4	156.8	135.2	47.41	126.0	151.1	127.2	20- 30	55.15	93.76	9.58
40	37.73	132.3	165.6	132.8	38.42	127.1	163.3	128.7	30- 40	76.21	170.0	17.4
50	28.04	131.0	173.9	131.2	28.71	127.7	171.5	129.6	40- 50	93.96	263.9	27
60	19.29	128.6	177.8	128.8	19.84	126.1	173.7	127.9	50- 60	107.4	371.4	37.9
70	12.13	121.7	167.8	122.1	12.53	119.6	163.3	121.3	60- 70	113.8	485.1	49.6
80	6.391	108.4	147.1	109.5	6.689	107.7	144.2	109.0	70- 80	110.0	595.1	60.8
90	2.066	93.53	124.5	94.90	2.154	93.82	123.4	94.93	80- 90	98.18	693.3	70.8
100	0.6440	81.97	109.1	83.53	0.6521	83.56	109.4	84.48	90-100	84.61	777.9	79.5
110	0.7224	65.61	91.32	67.08	0.7225	68.19	94.08	69.05	100-110	69.56	847.5	86.6
120	0.8116	54.47	74.52	55.56	0.8145	55.38	76.58	56.51	110-120	52.56	900.0	92
130	0.9037	43.54	63.80	43.99	0.9011	44.00	65.08	45.44	120-130	38.39	938.4	95.9
140	0.9876	30.81	50.49	28.45	0.9903	28.64	50.04	32.72	130-140	25.53	963.9	98.5
150	1.071	16.11	33.37	12.72	1.050	13.81	34.70	18.52	140-150	13.66	977.6	99.9
160	0	0	0	0	0	0	0	0	150-160	1.038	978.6	100
170	0	0	0	0	0	0	0	0	160-170	0	978.6	100
180	0	0	0	0	0	0	0	0	170-180	0	978.6	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:13 December 2022

$\gamma$  Range: 0 - 150DEG  
 $\gamma$  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: 99LBL12/CH		
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	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6
5	59.3	63.1	67.6	72.4	77.1	81.3	84.8	87.8	89.1	89.2	88.9	87.0	84.3	80.7	76.4	71.7	66.9	62.5	59.3
10	58.3	66.6	77.0	88.0	98.4	108	115	120	123	124	123	120	115	107	97.8	87.2	76.3	65.9	58.4
15	56.5	69.5	86.0	103	118	129	136	140	143	144	143	140	136	129	117	102	85.3	68.9	56.7
20	54.0	71.5	93.5	114	129	138	143	147	149	150	149	147	144	138	129	114	92.9	71.0	54.3
25	50.7	72.3	98.4	119	131	139	145	149	152	153	152	150	146	140	132	119	98.2	71.9	51.2
30	46.9	71.7	99.8	118	130	139	146	152	156	157	156	152	147	140	131	119	99.9	71.5	47.4
35	42.5	69.8	97.7	115	128	139	148	155	160	161	160	155	148	139	128	116	97.9	69.9	43.1
40	37.7	66.9	93.5	111	126	139	150	158	164	166	164	158	150	139	126	112	93.8	67.2	38.4
45	32.8	63.2	88.5	107	124	139	152	162	168	170	168	162	152	139	124	108	88.9	63.6	33.5
50	28.0	58.8	83.5	104	122	140	154	165	171	174	171	165	154	140	123	104	83.9	59.1	28.7
55	23.5	53.8	78.8	101	121	139	155	167	174	177	174	167	155	139	121	101	79.1	54.1	24.1
60	19.3	49.1	74.4	97.5	119	138	155	167	175	178	175	167	155	139	119	97.7	74.6	49.2	19.8
65	15.5	44.5	70.2	94.1	116	136	152	164	172	175	172	165	152	136	116	94.3	70.4	44.7	16.0
70	12.1	40.3	66.1	90.4	112	131	147	159	165	168	165	159	147	132	113	90.7	66.3	40.4	12.5
75	9.11	36.3	62.0	85.6	106	125	139	150	155	158	156	151	140	125	107	86.0	62.2	36.4	9.45
80	6.39	32.3	57.2	79.9	99.8	117	130	140	145	147	145	141	131	118	101	80.5	57.6	32.5	6.69
85	3.94	28.2	51.9	73.9	93.0	109	121	129	133	136	134	130	122	110	94.3	74.8	52.5	28.5	4.19
90	2.07	23.6	46.6	67.8	86.0	101	112	119	122	125	123	120	113	102	87.3	68.7	47.1	23.7	2.15
95	1.13	20.0	43.0	63.6	81.1	95.2	105	112	115	117	115	113	106	96.7	82.5	64.7	43.7	20.5	1.24
100	0.64	16.3	37.4	58.1	75.2	88.7	98.2	105	107	109	108	106	99.5	90.3	76.7	59.3	38.3	16.8	0.65
105	0.68	13.0	32.7	50.9	67.3	80.7	90.0	96.3	99.0	101	99.6	97.3	91.4	82.3	69.0	52.2	33.5	13.6	0.69
110	0.72	9.96	28.9	45.7	59.7	71.5	80.4	86.7	89.5	91.3	90.1	87.7	81.8	73.1	61.1	46.8	29.7	10.5	0.72
115	0.77	6.62	24.9	41.3	54.4	64.7	72.0	77.3	80.2	81.6	80.8	78.2	73.1	65.9	55.6	42.3	25.9	6.63	0.77
120	0.81	2.95	20.9	36.7	49.5	59.4	66.2	71.0	73.4	74.5	73.8	71.7	67.2	60.5	50.6	37.7	21.8	3.66	0.81
125	0.86	1.22	16.8	31.8	44.3	54.2	61.0	65.7	68.1	69.2	68.5	66.3	61.8	55.0	45.2	32.7	17.6	1.50	0.86
130	0.90	0.92	12.3	26.7	38.7	48.4	55.3	60.1	62.7	63.8	63.0	60.7	56.0	48.8	39.2	26.9	12.3	1.06	0.90
135	0.94	0.96	7.34	21.5	32.8	42.0	48.9	53.8	56.5	57.6	56.8	54.4	49.2	41.6	31.7	20.4	6.84	0.99	0.94
140	0.99	1.00	2.48	15.8	26.4	35.2	41.8	46.6	49.4	50.5	49.7	47.0	41.2	33.0	23.9	14.0	3.12	1.03	0.99
145	1.03	1.04	1.16	9.33	19.8	27.9	34.1	38.7	41.3	42.4	41.5	38.7	31.6	24.2	16.7	7.46	1.19	1.07	1.03
150	1.07	1.07	1.11	2.81	12.2	20.0	25.8	29.9	32.4	33.4	32.6	28.4	21.9	16.1	9.39	3.15	1.13	1.10	1.05
155	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
160	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
165	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
170	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
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:13 December 2022

γ Range: 0 - 150DEG

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: 99LBL12/CH		
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	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6	59.6		
5	57.9	60.7	64.9	69.1	73.3	76.4	79.4	80.7	81.8	81.2	80.3	77.8	75.0	71.1	67.1	62.8	59.3		
10	59.8	69.1	79.5	89.1	97.9	105	110	112	114	113	111	106	99.7	91.3	81.9	71.5	62.0		
15	62.5	77.8	93.6	107	118	125	130	131	133	132	131	126	120	109	95.8	80.1	64.7		
20	64.6	85.2	105	119	127	132	136	137	139	138	137	133	128	120	107	87.3	66.7		
25	65.8	90.4	111	122	129	135	140	143	145	143	141	136	130	123	112	92.0	67.6		
30	65.7	92.7	111	121	131	139	145	149	151	149	146	140	132	123	112	94.0	67.3		
35	64.5	92.0	108	121	132	142	151	155	158	156	152	144	134	122	109	93.0	65.7		
40	62.1	88.6	105	120	134	146	155	161	163	161	156	147	136	122	107	89.5	63.2		
45	59.0	84.2	103	120	136	149	159	165	168	166	160	150	137	121	104	85.2	59.9		
50	55.4	79.8	100.0	119	137	151	162	169	171	169	163	152	138	121	102	80.9	56.3		
55	51.3	75.7	97.5	118	137	152	164	171	174	171	165	153	138	120	99.2	76.9	52.1		
60	46.9	71.8	94.8	116	136	152	163	171	174	171	165	153	138	118	96.6	73.2	47.7		
65	42.7	68.1	91.9	114	133	149	160	167	170	168	161	150	135	116	93.7	69.5	43.6		
70	38.8	64.4	88.6	110	129	144	154	161	163	162	155	145	130	112	90.4	65.8	39.7		
75	35.1	60.6	84.4	105	123	137	147	153	154	153	147	138	124	107	85.9	62.1	36.0		
80	31.5	56.4	79.2	99.3	116	129	137	143	144	143	138	130	117	101	80.6	57.7	32.4		
85	27.7	51.7	73.8	93.1	109	120	128	132	134	133	129	121	110	94.3	75.1	52.7	28.5		
90	23.3	46.5	68.0	86.4	101	112	118	122	123	123	119	113	102	87.6	69.2	47.6	24.1		
95	20.4	43.5	64.3	81.9	95.9	106	112	115	116	116	112	106	96.8	83.1	65.4	44.4	21.0		
100	16.7	38.6	59.6	76.9	90.2	99.5	105	109	109	109	106	100	91.1	77.9	60.5	39.4	17.3		
105	13.7	33.6	52.8	70.1	83.4	92.6	98.2	102	102	102	98.6	93.1	84.1	70.8	53.6	34.3	14.1		
110	10.8	29.8	46.9	61.8	74.6	84.1	89.8	93.3	94.1	93.5	90.1	84.4	75.4	62.7	47.7	30.4	11.1		
115	7.85	25.9	42.3	55.6	66.2	74.2	80.8	84.0	85.1	84.1	81.0	75.3	67.3	56.6	43.1	26.4	8.06		
120	4.68	22.0	37.6	50.5	60.2	67.1	72.4	75.6	76.6	75.7	73.1	68.4	61.4	51.6	38.4	22.4	4.94		
125	1.53	17.9	32.7	45.1	55.0	61.4	65.9	69.2	70.5	69.8	67.3	62.9	56.1	46.3	33.5	18.4	1.82		
130	1.00	13.4	26.8	39.0	49.0	56.2	60.1	62.6	65.1	64.3	61.8	57.2	50.2	40.6	28.4	14.2	1.04		
135	0.96	8.76	20.7	31.5	41.8	49.7	54.7	56.3	57.9	58.1	55.5	50.8	43.9	34.7	23.2	9.95	0.94		
140	0.99	4.21	14.8	24.3	33.0	41.9	47.7	50.3	50.0	50.8	48.4	43.7	37.1	28.4	17.7	5.22	0.97		
145	1.03	1.20	9.38	17.3	24.7	31.9	39.7	42.5	43.4	41.0	40.5	36.0	29.8	21.8	12.1	1.39	1.01		
150	1.06	1.12	4.19	10.9	16.8	22.6	29.1	33.8	34.7	33.8	31.9	27.8	22.1	14.9	5.81	1.09	1.05		
155	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		
160	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		
165	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		
170	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		
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:13 December 2022

γ Range: 0 - 150DEG

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: