

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P828014

Luminaire Tested: **OHBL-18SE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828014
REPORT IS A COMBINATION OF REPORTS P826234 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

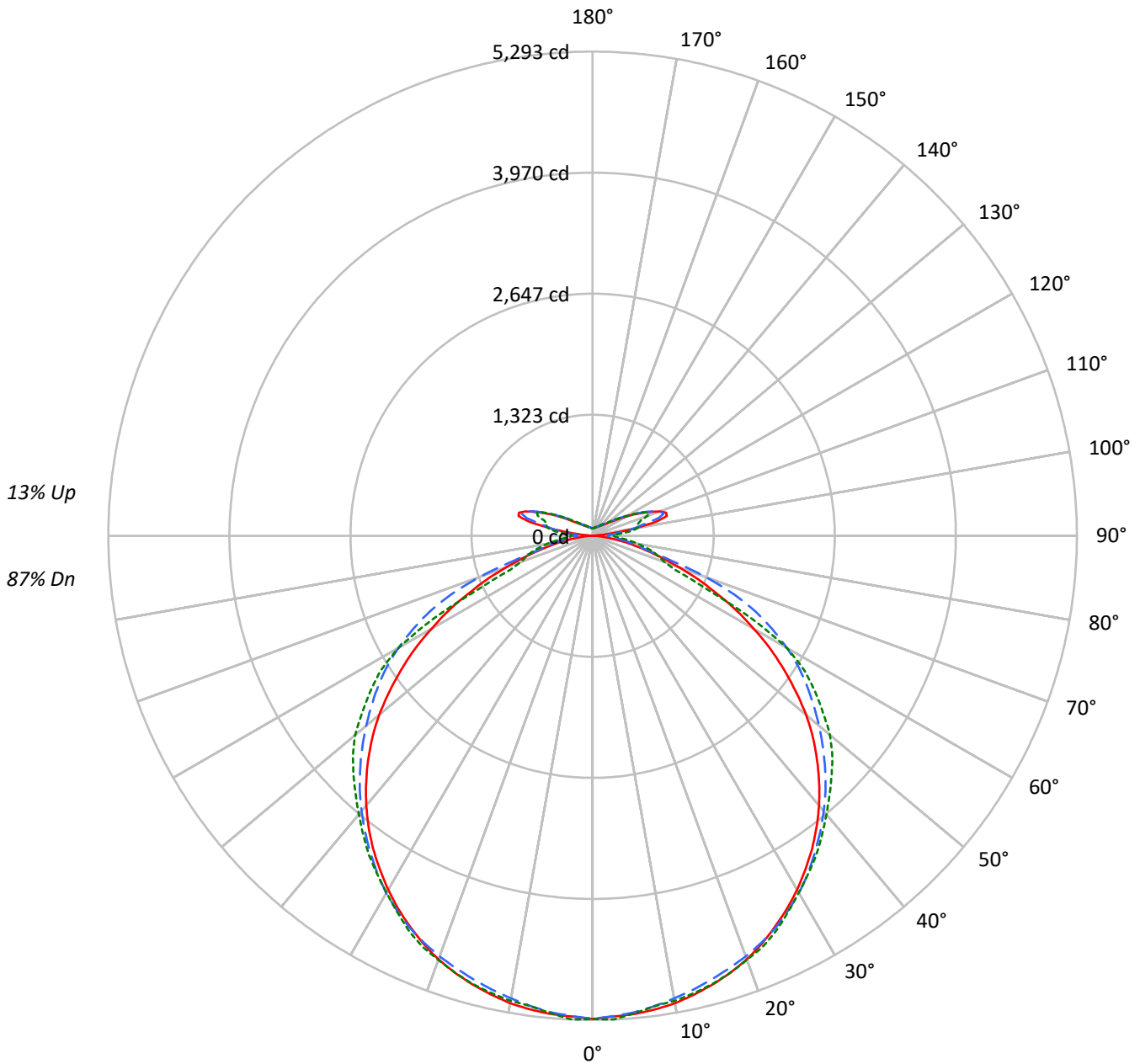
Lumens per Lamp: N/A
Luminaire Lumens: 16946.1 lumens
Efficiency: N/A
Efficacy: 138.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P828014

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87			87
1	106	102	98	94	102	98	94	91	92	89	86	85	83	81	80	78	76	74			74
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62			62
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	55	52			52
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45			45
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39			39
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34			34
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30			30
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24			24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22			22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9021	9021	9021
5°	8919	8886	8947
10°	8843	8748	8885
15°	8743	8643	8864
20°	8643	8576	8824
25°	8493	8508	8788
30°	8332	8403	8665
35°	8147	8239	8620
40°	7918	8069	8545
45°	7619	7874	8548
50°	7231	7651	8549
55°	6653	7431	8310
60°	5917	7111	7776
65°	4986	6525	5005
70°	3919	5083	3708
75°	2833	3009	3886
80°	1855	2490	3918
85°	929	2261	4120



TEST NUMBER: P828014

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	2.9
10°-20°	1428.1	8.4
20°-30°	2181.2	12.9
30°-40°	2646.6	15.6
40°-50°	2773.9	16.4
50°-60°	2513.5	14.8
60°-70°	1685.2	9.9
70°-80°	756.7	4.5
80°-90°	279.8	1.7
90°-100°	275.9	1.6
100°-110°	709.7	4.2
110°-120°	594.9	3.5
120°-130°	286.8	1.7
130°-140°	145.6	0.9
140°-150°	85.0	0.5
150°-160°	50.4	0.3
160°-170°	26.6	0.2
170°-180°	8.1	0.0
0°-30°	4107.4	24.2
0°-40°	6754.0	39.9
0°-60°	12041.4	71.1
0°-90°	14763.1	87.1
90°-120°	1580.6	9.3
90°-150°	2098.0	12.4
90°-180°	2183.0	12.9
0°-180°	16946.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5282	5282	5282	5282	5282	
5°	5248	5266	5229	5245	5238	499
15°	5077	5057	5022	5066	5072	1434
25°	4717	4696	4729	4773	4759	2174
35°	4181	4191	4233	4278	4262	2613
45°	3470	3526	3592	3684	3695	2673
55°	2553	2676	2859	2973	2966	2279
65°	1498	1733	1967	1660	1356	1493
75°	590	855	629	644	686	644
85°	102	195	250	302	316	124
90°	5	93	168	214	227	9
95°	45	133	232	298	326	138
105°	839	844	747	554	515	797
115°	583	592	605	609	606	587
125°	287	303	316	318	316	270
135°	174	178	184	190	192	137
145°	128	132	134	136	138	81
155°	104	107	108	109	108	49
165°	92	93	93	93	93	26
175°	83	84	84	84	84	8
180°	83	83	83	83	83	



TEST NUMBER: P828014

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5281.9	5281.9	5281.9	5281.9	5281.9
2.5°	5260.6	5282.8	5255.2	5285.0	5292.7
5°	5247.6	5265.9	5229.3	5245.3	5238.4
7.5°	5223.9	5230.0	5186.5	5199.5	5185.8
10°	5188.8	5185.8	5134.6	5159.8	5162.8
12.5°	5136.8	5127.7	5081.8	5120.0	5120.8
15°	5077.2	5057.4	5021.5	5065.8	5071.9
17.5°	5008.5	4982.6	4958.9	5016.2	5007.0
20°	4928.3	4897.8	4893.2	4955.8	4932.9
22.5°	4829.1	4805.4	4816.1	4875.7	4861.2
25°	4716.8	4696.2	4729.0	4772.6	4758.8
27.5°	4598.4	4586.2	4623.6	4657.2	4630.5
30°	4468.6	4461.7	4511.3	4538.8	4505.2
32.5°	4327.2	4329.6	4376.9	4414.3	4383.1
35°	4180.7	4190.6	4233.3	4278.4	4261.6
37.5°	4019.5	4041.7	4084.4	4135.6	4118.0
40°	3849.2	3881.2	3928.6	3990.5	3974.4
42.5°	3665.2	3705.6	3766.8	3835.4	3833.9
45°	3469.6	3526.2	3591.8	3683.5	3694.9
47.5°	3266.5	3329.8	3413.1	3535.3	3552.8
50°	3045.8	3125.2	3229.1	3375.7	3386.4
52.5°	2799.8	2908.2	3045.8	3186.2	3173.3
55°	2553.2	2676.1	2858.7	2973.2	2966.3
57.5°	2307.2	2445.5	2666.9	2748.7	2747.9
60°	2032.2	2207.2	2449.2	2511.2	2450.1
62.5°	1778.0	1965.8	2217.1	2172.1	1962.8
65°	1498.4	1732.9	1967.3	1660.3	1355.6
67.5°	1250.2	1494.6	1671.0	1137.2	973.8
70°	1000.5	1270.1	1302.9	843.9	832.5
72.5°	779.0	1066.2	898.9	722.5	759.2
75°	589.6	855.4	629.3	643.8	685.8
77.5°	430.0	656.8	489.6	564.4	598.8
80°	295.6	465.1	399.4	474.3	497.9
82.5°	185.6	307.0	320.0	381.8	406.3
85°	101.6	194.8	249.8	301.7	316.2
87.5°	42.0	117.6	190.9	232.9	245.2
90°	4.9	93.3	168.2	213.6	227.1
92.5°	14.9	87.2	165.4	215.6	231.8
95°	44.9	133.0	231.9	297.7	325.8
97.5°	225.7	274.6	334.9	405.2	435.8
100°	462.3	515.1	456.0	491.5	501.3
102.5°	713.9	728.1	566.9	524.3	519.9
105°	838.9	844.2	746.8	553.5	515.0



TEST NUMBER: P828014

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	678.7	694.0	696.0	683.7	658.5
115°	582.8	591.7	604.7	609.1	605.6
117.5°	499.4	501.8	516.6	520.3	522.7
120°	414.4	424.3	441.8	441.4	437.3
122.5°	348.6	358.6	372.0	374.2	369.9
125°	287.0	302.8	316.2	317.7	316.0
127.5°	244.4	255.3	269.8	272.8	272.8
130°	213.6	221.0	233.2	237.1	237.9
132.5°	191.0	197.7	205.8	212.2	211.3
135°	173.5	177.7	184.2	189.8	192.2
137.5°	160.2	162.7	167.7	173.9	174.8
140°	147.7	151.0	154.3	159.1	160.7
142.5°	136.0	140.2	142.7	146.7	147.4
145°	127.7	131.8	134.3	135.9	137.5
147.5°	121.0	124.3	126.0	127.7	128.4
150°	115.2	116.8	119.3	120.2	121.0
152.5°	109.3	111.0	113.5	114.3	114.3
155°	104.3	106.8	108.4	109.2	108.5
157.5°	100.2	102.6	104.2	105.1	105.1
160°	96.8	98.4	100.1	100.9	100.9
162.5°	94.2	95.1	95.9	96.8	96.8
165°	91.8	92.6	93.4	93.4	93.4
167.5°	89.2	90.0	90.1	90.9	90.9
170°	86.8	87.6	87.6	87.7	87.7
172.5°	85.1	85.9	85.9	85.2	86.0
175°	83.4	84.2	83.5	83.5	83.5
177.5°	84.2	83.4	82.7	81.8	81.1
180°	82.7	82.7	82.7	82.7	82.7



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	843.0	857.0	814.9	652.6	552.4
110°	778.8	793.9	775.5	718.2	638.1



(END OF REPORT)