

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: P827982

Luminaire Tested: **OHBL-15SE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827982
REPORT IS A COMBINATION OF REPORTS P826222 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-15SE-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

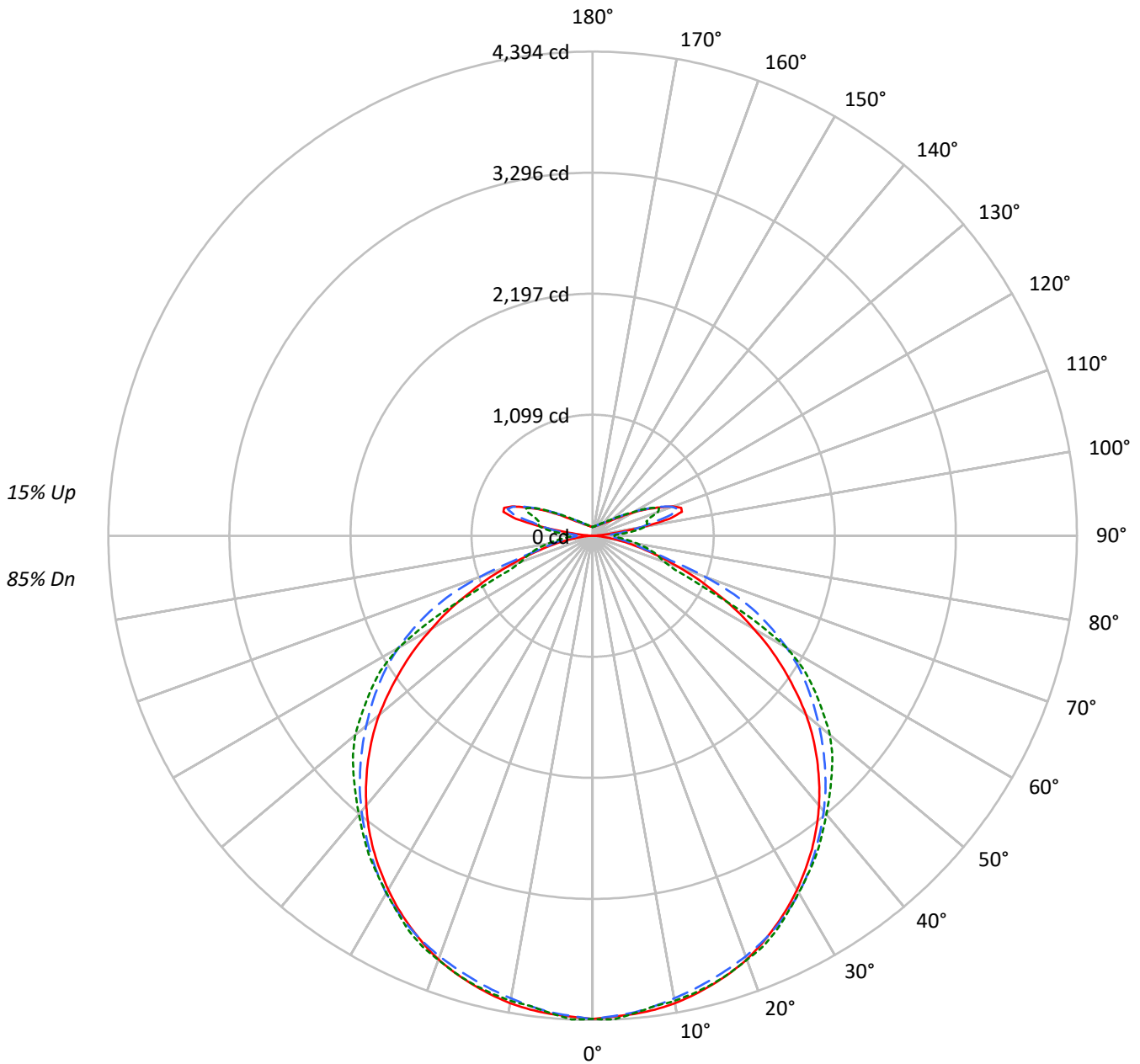
Lumens per Lamp: N/A
Luminaire Lumens: 14411.1 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 104.4
Input Voltage (V): NR
Input Current (A_{in}): 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: P827982

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L935-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P827982

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L935-CD-UPL24

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	115	115	115	115	111	111	111	111	103	103	103	95	95	95	88	88	88	85																			
1	106	101	97	93	102	97	94	90	91	88	85	84	82	80	78	76	75	72																			
2	96	88	82	76	92	85	79	74	79	75	70	74	70	67	69	66	63	60																			
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	61	57	54	51																			
4	80	69	60	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43																			
5	74	61	53	46	71	60	51	45	56	49	44	52	46	42	49	44	40	38																			
6	68	55	47	40	65	54	45	40	50	43	38	47	41	37	44	39	35	33																			
7	63	50	42	36	61	48	41	35	46	39	34	43	37	32	40	35	31	29																			
8	59	46	37	32	56	44	36	31	42	35	30	39	33	29	37	32	28	26																			
9	55	42	34	28	53	41	33	28	38	32	27	36	30	26	34	29	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14266	14266	14266
5°	13994	13975	14148
10°	13768	13682	14050
15°	13508	13443	14016
20°	13247	13263	13954
25°	12909	13081	13896
30°	12555	12840	13702
35°	12162	12506	13631
40°	11701	12159	13513
45°	11132	11767	13517
50°	10430	11329	13518
55°	9451	10883	13141
60°	8254	10278	12296
65°	6799	9274	7915
70°	5186	7068	5864
75°	3596	4056	6145
80°	2210	3201	6196
85°	990	2672	6515



TEST NUMBER: P827982

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L935-CD-UPL24

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	2.9
10°-20°	1185.6	8.2
20°-30°	1810.8	12.6
30°-40°	2197.2	15.2
40°-50°	2302.8	16.0
50°-60°	2086.7	14.5
60°-70°	1399.1	9.7
70°-80°	628.2	4.4
80°-90°	233.1	1.6
90°-100°	261.8	1.8
100°-110°	703.1	4.9
110°-120°	591.6	4.1
120°-130°	285.0	2.0
130°-140°	144.3	1.0
140°-150°	84.2	0.6
150°-160°	49.7	0.3
160°-170°	26.2	0.2
170°-180°	8.0	0.1
0°-30°	3410.0	23.7
0°-40°	5607.1	38.9
0°-60°	9996.7	69.4
0°-90°	12257.2	85.1
90°-120°	1556.6	10.8
90°-150°	2070.0	14.4
90°-180°	2154.0	14.9
0°-180°	14411.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4385	4385	4385	4385	4385	
5°	4356	4372	4341	4355	4349	414
15°	4215	4199	4169	4206	4211	1190
25°	3916	3899	3926	3962	3951	1805
35°	3471	3479	3514	3552	3538	2169
45°	2880	2927	2982	3058	3068	2219
55°	2120	2222	2373	2468	2463	1892
65°	1244	1439	1633	1378	1125	1240
75°	490	710	522	534	569	535
85°	84	162	207	250	262	103
90°	5	82	146	186	198	8
95°	45	126	217	279	307	138
105°	838	841	740	545	506	796
115°	582	590	601	604	601	586
125°	286	302	314	315	313	269
135°	172	176	183	188	190	136
145°	126	130	133	134	136	81
155°	103	105	107	108	107	48
165°	90	91	92	92	92	26
175°	82	83	82	82	82	8
180°	81	81	81	81	81	



TEST NUMBER: P827982

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4385.1	4385.1	4385.1	4385.1	4385.1
2.5°	4367.3	4385.7	4362.8	4387.6	4393.9
5°	4356.5	4371.8	4341.3	4354.7	4348.9
7.5°	4336.9	4341.9	4305.8	4316.6	4305.2
10°	4307.8	4305.2	4262.7	4283.6	4286.2
12.5°	4264.6	4257.0	4218.9	4250.7	4251.2
15°	4215.2	4198.7	4168.8	4205.7	4210.7
17.5°	4158.1	4136.5	4116.8	4164.4	4156.8
20°	4091.5	4066.2	4062.3	4114.3	4095.3
22.5°	4009.1	3989.4	3998.3	4047.8	4035.7
25°	3915.8	3898.8	3926.0	3962.2	3950.8
27.5°	3817.6	3807.4	3838.5	3866.4	3844.3
30°	3709.8	3704.1	3745.3	3768.2	3740.3
32.5°	3592.5	3594.4	3633.8	3664.8	3638.8
35°	3470.8	3479.0	3514.5	3551.9	3538.0
37.5°	3337.0	3355.3	3390.9	3433.3	3418.8
40°	3195.6	3222.2	3261.5	3312.9	3299.6
42.5°	3042.8	3076.4	3127.1	3184.2	3182.9
45°	2880.5	2927.4	2981.9	3058.0	3067.5
47.5°	2711.8	2764.4	2833.6	2935.0	2949.6
50°	2528.6	2594.5	2680.8	2802.5	2811.3
52.5°	2324.4	2414.4	2528.6	2645.3	2634.5
55°	2119.6	2221.7	2373.2	2468.3	2462.7
57.5°	1915.4	2030.3	2214.1	2281.9	2281.3
60°	1687.2	1832.4	2033.4	2084.8	2034.0
62.5°	1476.1	1632.0	1840.7	1803.3	1629.5
65°	1244.0	1438.7	1633.3	1378.4	1125.4
67.5°	1037.9	1240.8	1387.3	944.1	808.4
70°	830.6	1054.4	1081.7	700.6	691.1
72.5°	646.8	885.2	746.2	599.8	630.2
75°	489.5	710.2	522.4	534.5	569.3
77.5°	357.0	545.2	406.4	468.6	497.1
80°	245.4	386.2	331.6	393.8	413.4
82.5°	154.1	254.9	265.7	317.0	337.3
85°	84.3	161.7	207.3	250.4	262.5
87.5°	34.8	97.7	158.5	193.4	203.5
90°	4.8	82.2	146.3	186.1	198.2
92.5°	14.8	78.8	147.5	193.4	208.7
95°	44.8	126.1	216.9	279.4	306.9
97.5°	225.4	269.2	322.3	390.0	420.1
100°	461.9	510.5	445.5	478.8	488.2
102.5°	713.3	724.4	558.1	513.7	508.9
105°	838.3	841.2	739.5	544.6	505.7



TEST NUMBER: P827982

CATALOG NUMBER: OHBL-15SE-MCL-UNV-L935-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	677.8	692.3	691.6	678.1	652.7
115°	581.8	590.1	600.9	604.3	600.6
117.5°	498.4	500.5	513.3	516.3	518.4
120°	413.4	423.2	438.9	437.9	433.6
122.5°	347.6	357.6	369.6	371.1	366.7
125°	286.1	301.8	313.9	315.0	313.1
127.5°	243.4	254.3	267.7	270.4	270.2
130°	212.6	219.8	231.4	234.8	235.6
132.5°	189.8	196.3	204.1	209.9	209.1
135°	172.3	176.3	182.8	187.7	189.9
137.5°	158.8	161.3	166.3	172.0	172.7
140°	146.3	149.7	153.2	157.4	158.9
142.5°	134.8	138.8	141.5	145.1	145.8
145°	126.5	130.5	133.0	134.5	135.9
147.5°	119.7	123.0	124.7	126.3	127.0
150°	113.8	115.5	118.0	118.8	119.7
152.5°	108.0	109.7	112.2	113.0	113.0
155°	103.0	105.3	107.0	107.8	107.2
157.5°	98.8	101.2	102.8	103.7	103.7
160°	95.5	97.0	98.7	99.5	99.5
162.5°	92.8	93.7	94.5	95.3	95.3
165°	90.3	91.2	92.0	92.0	92.0
167.5°	87.8	88.4	88.7	89.5	89.5
170°	85.3	86.2	86.2	86.3	86.3
172.5°	83.7	84.5	84.5	83.8	84.7
175°	82.0	82.8	82.2	82.3	82.3
177.5°	82.6	82.0	81.3	80.7	80.1
180°	81.3	81.3	81.3	81.3	81.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	842.3	854.6	808.6	644.9	544.5
110°	778.0	791.8	770.2	711.7	631.3



(END OF REPORT)