

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: P827981

Luminaire Tested: **OHBL-15SE-MCL-UNV-L935-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827981
REPORT IS A COMBINATION OF REPORTS P826114 AND G3-2310-221-10
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-UPL15
Description:
Light Source: -
Ballast/Driver: -

Summary

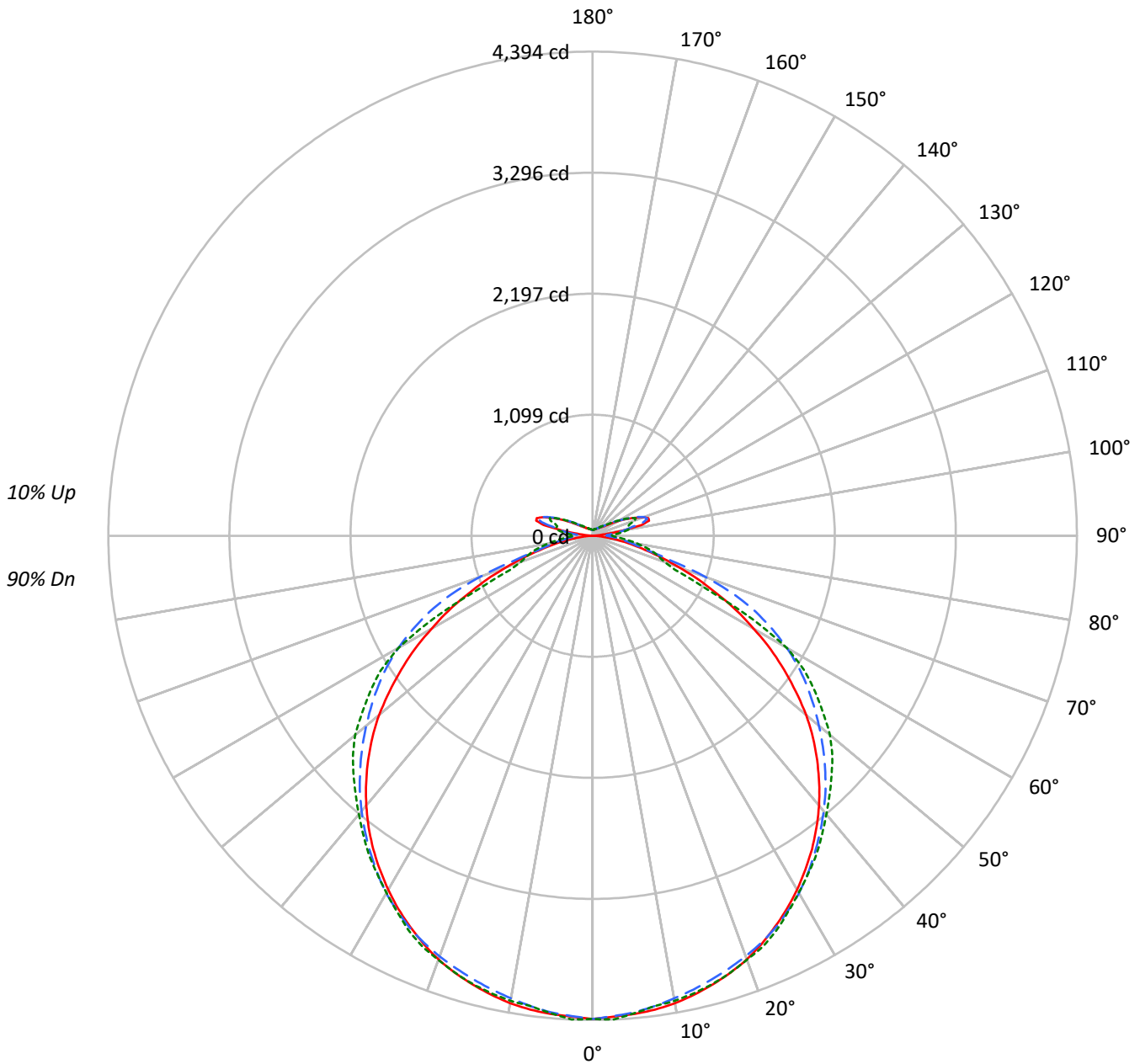
Lumens per Lamp: N/A
Luminaire Lumens: 13660.2 lumens
Efficiency: N/A
Efficacy: 140.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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

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Luminous Intensity Polar Plot





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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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	90																			
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	76																			
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	54																			
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	46																			
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	40																			
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	35																			
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	31																			
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	27																			
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	22																			

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.5	3.0
10°-20°	1185.6	8.7
20°-30°	1810.8	13.3
30°-40°	2197.2	16.1
40°-50°	2302.8	16.9
50°-60°	2086.7	15.3
60°-70°	1399.1	10.2
70°-80°	628.2	4.6
80°-90°	231.2	1.7
90°-100°	190.0	1.4
100°-110°	452.9	3.3
110°-120°	377.5	2.8
120°-130°	182.4	1.3
130°-140°	92.8	0.7
140°-150°	54.5	0.4
150°-160°	32.4	0.2
160°-170°	17.2	0.1
170°-180°	5.3	0.0
0°-30°	3410.0	25.0
0°-40°	5607.1	41.0
0°-60°	9996.7	73.2
0°-90°	12255.2	89.7
90°-120°	1020.4	7.5
90°-150°	1350.1	9.9
90°-180°	1405.0	10.3
0°-180°	13660.2	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°	3	72	131	166	177	7
95°	24	94	163	208	229	84
105°	530	535	480	357	333	502
115°	368	371	385	388	382	372
125°	180	191	202	202	202	171
135°	110	114	117	122	123	87
145°	82	84	86	88	88	52
155°	67	69	70	70	70	31
165°	60	60	60	60	60	17
175°	54	54	54	54	54	5
180°	54	54	54	54	54	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4385.1	4385.1	4385.1	4385.1	<i>4385.1</i>
2.5°	<i>4367.3</i>	<i>4385.7</i>	<i>4362.8</i>	<i>4387.6</i>	<i>4393.9</i>
5°	4356.5	4371.8	4341.3	4354.7	<i>4348.9</i>
7.5°	4336.9	4341.9	4305.8	4316.6	<i>4305.2</i>
10°	4307.8	4305.2	4262.7	4283.6	<i>4286.2</i>
12.5°	4264.6	4257.0	4218.9	4250.7	<i>4251.2</i>
15°	4215.2	4198.7	4168.8	4205.7	<i>4210.7</i>
17.5°	4158.1	4136.5	4116.8	4164.4	<i>4156.8</i>
20°	4091.5	4066.2	4062.3	4114.3	<i>4095.3</i>
22.5°	4009.1	3989.4	3998.3	4047.8	<i>4035.7</i>
25°	3915.8	3898.8	3926.0	3962.2	<i>3950.8</i>
27.5°	3817.6	3807.4	3838.5	3866.4	<i>3844.3</i>
30°	3709.8	3704.1	3745.3	3768.2	<i>3740.3</i>
32.5°	3592.5	3594.4	3633.8	3664.8	<i>3638.8</i>
35°	3470.8	3479.0	3514.5	3551.9	<i>3538.0</i>
37.5°	3337.0	3355.3	3390.9	3433.3	<i>3418.8</i>
40°	3195.6	3222.2	3261.5	3312.9	<i>3299.6</i>
42.5°	3042.8	3076.4	3127.1	3184.2	<i>3182.9</i>
45°	2880.5	2927.4	2981.9	3058.0	<i>3067.5</i>
47.5°	2711.8	2764.4	2833.6	2935.0	<i>2949.6</i>
50°	2528.6	2594.5	2680.8	2802.5	<i>2811.3</i>
52.5°	2324.4	2414.4	2528.6	2645.3	<i>2634.5</i>
55°	2119.6	2221.7	2373.2	2468.3	<i>2462.7</i>
57.5°	1915.4	2030.3	2214.1	2281.9	<i>2281.3</i>
60°	1687.2	1832.4	2033.4	2084.8	<i>2034.0</i>
62.5°	1476.1	1632.0	1840.7	1803.3	<i>1629.5</i>
65°	1244.0	1438.7	1633.3	1378.4	<i>1125.4</i>
67.5°	1037.9	1240.8	1387.3	944.1	<i>808.4</i>
70°	830.6	1054.4	1081.7	700.6	<i>691.1</i>
72.5°	646.8	885.2	746.2	599.8	<i>630.2</i>
75°	489.5	710.2	522.4	534.5	<i>569.3</i>
77.5°	357.0	545.2	406.4	468.6	<i>497.1</i>
80°	245.4	386.2	331.6	393.8	<i>413.4</i>
82.5°	154.1	254.9	265.7	317.0	<i>337.3</i>
85°	84.3	161.7	207.3	250.4	<i>262.5</i>
87.5°	34.8	97.7	158.5	193.4	<i>203.5</i>
90°	3.2	72.2	131.3	166.1	<i>176.6</i>
92.5°	9.0	64.6	125.8	161.8	<i>174.5</i>
95°	24.0	93.6	162.8	207.8	<i>229.4</i>
97.5°	139.6	182.5	231.5	270.0	<i>287.6</i>
100°	282.8	325.5	300.5	323.8	<i>331.5</i>
102.5°	454.2	454.4	365.6	342.0	<i>338.9</i>
105°	530.0	534.6	479.5	357.1	<i>333.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	428.6	438.9	444.1	434.8	421.0
115°	368.4	370.9	385.1	388.5	382.2
117.5°	316.8	316.3	329.2	331.3	330.9
120°	265.1	269.0	278.1	279.6	279.4
122.5°	220.1	226.8	237.9	238.6	238.3
125°	180.3	190.9	202.2	202.5	202.2
127.5°	155.1	160.9	172.7	174.6	173.5
130°	135.1	139.8	148.1	151.4	151.4
132.5°	121.5	125.5	131.6	134.9	135.8
135°	109.8	113.8	117.0	121.8	123.3
137.5°	102.2	103.8	107.2	111.2	112.7
140°	93.8	96.3	98.2	101.6	103.1
142.5°	87.3	89.7	90.7	94.2	94.9
145°	81.5	83.8	85.5	87.8	88.4
147.5°	78.0	79.7	81.3	81.3	82.8
150°	73.8	75.5	76.3	77.2	77.2
152.5°	70.5	71.3	73.0	73.0	73.8
155°	67.2	68.7	70.3	70.3	70.5
157.5°	64.7	66.2	67.0	67.8	67.8
160°	62.2	63.7	64.5	64.5	65.3
162.5°	61.2	62.0	62.0	62.8	62.8
165°	59.5	59.5	60.3	60.3	60.3
167.5°	57.8	58.4	58.7	58.7	59.5
170°	56.2	57.0	57.0	56.3	57.2
172.5°	55.3	55.3	56.2	55.5	55.5
175°	54.5	54.5	53.8	54.0	54.0
177.5°	54.2	54.5	53.8	53.2	52.6
180°	53.8	53.8	53.8	53.8	53.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	530.7	540.4	520.2	414.1	354.5
110°	490.5	501.0	495.2	458.3	408.0



(END OF REPORT)