

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: P829809

Luminaire Tested: **OHBL-15SE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829809
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-A-UNV-L840-CD
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

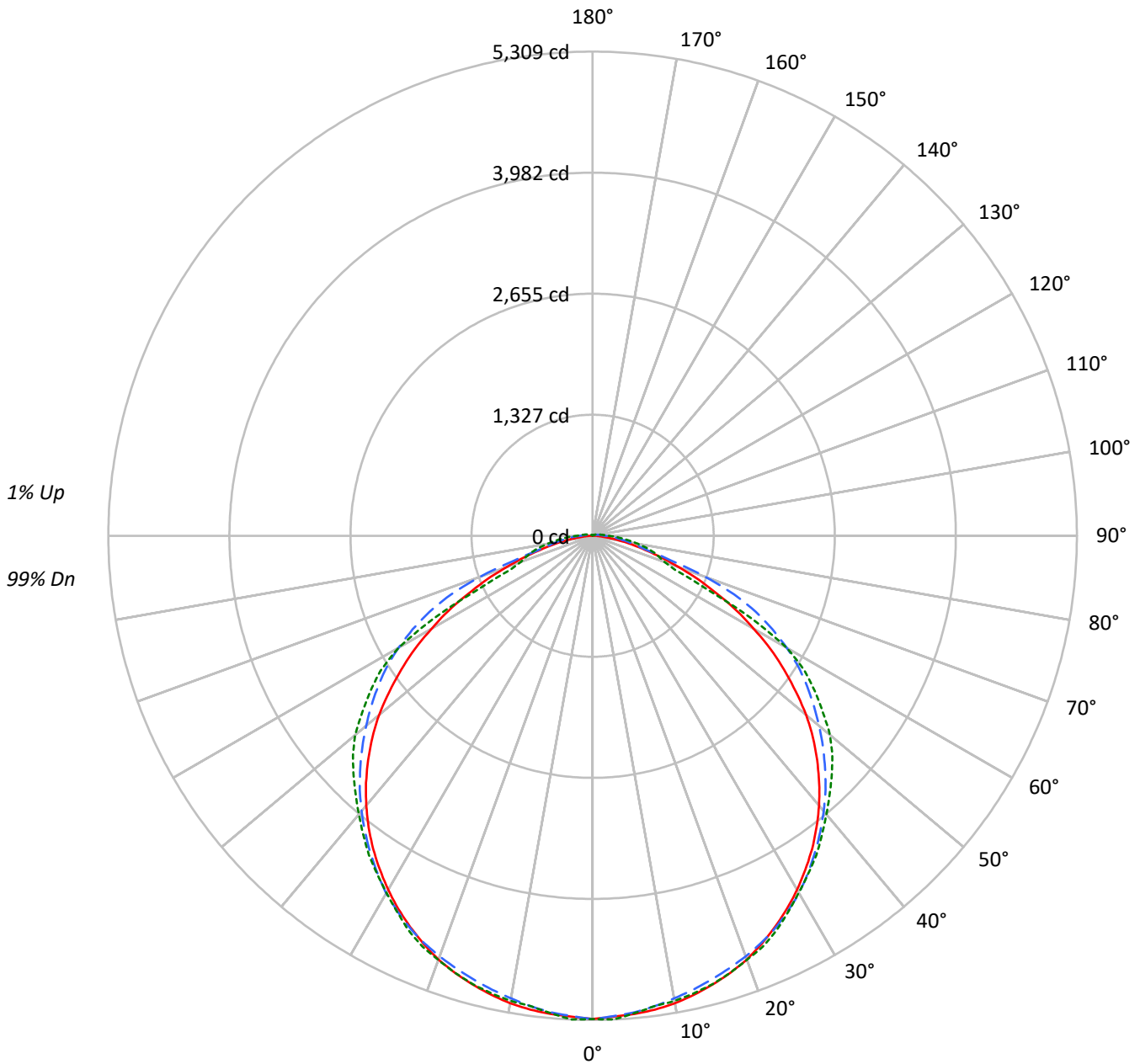
Lumens per Lamp: N/A
Luminaire Lumens: 14976.0 lumens
Efficiency: N/A
Efficacy: 172.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.88' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 87
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

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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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17238	17238	17238
5°	17125	16886	16880
10°	17062	16532	16553
15°	16954	16244	16304
20°	16846	16026	16021
25°	16643	15806	15738
30°	16421	15515	15295
35°	16157	15111	14980
40°	15814	14692	14598
45°	15337	14219	14324
50°	14692	13688	14012
55°	13667	13150	13268
60°	12324	12419	12024
65°	10571	11206	7432
70°	8515	8540	5214
75°	6384	4901	5054
80°	4444	3868	4498
85°	2529	3229	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	499.6	3.3
10°-20°	1432.6	9.6
20°-30°	2188.1	14.6
30°-40°	2654.9	17.7
40°-50°	2782.6	18.6
50°-60°	2521.4	16.8
60°-70°	1690.5	11.3
70°-80°	759.1	5.1
80°-90°	275.5	1.8
90°-100°	82.9	0.6
100°-110°	39.1	0.3
110°-120°	19.6	0.1
120°-130°	10.8	0.1
130°-140°	7.4	0.0
140°-150°	5.0	0.0
150°-160°	3.7	0.0
160°-170°	2.4	0.0
170°-180°	0.8	0.0
0°-30°	4120.3	27.5
0°-40°	6775.2	45.2
0°-60°	12079.1	80.7
0°-90°	14804.2	98.9
90°-120°	141.7	0.9
90°-150°	164.9	1.1
90°-180°	172.0	1.1
0°-180°	14976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5298	5298	5298	5298	5298	
5°	5264	5282	5246	5262	5255	501
15°	5093	5073	5037	5082	5088	1438
25°	4732	4711	4744	4788	4774	2181
35°	4194	4204	4247	4292	4275	2621
45°	3480	3537	3603	3695	3706	2681
55°	2561	2684	2868	2982	2976	2286
65°	1503	1738	1974	1666	1360	1498
75°	591	858	631	646	688	646
85°	102	195	250	303	317	124
90°	1	65	130	162	170	6
95°	1	41	89	108	111	1
105°	3	18	44	53	55	4
115°	6	9	22	28	30	6
125°	5	6	14	16	17	5
135°	7	8	8	12	13	5
145°	7	8	8	8	9	5
155°	8	8	8	8	8	4
165°	8	8	8	8	8	2
175°	8	8	8	7	7	1
180°	8	8	8	8	8	



TEST NUMBER: P829809

CATALOG NUMBER: OHBL-15SE-A-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5298.5	5298.5	5298.5	5298.5	5298.5
2.5°	5277.1	5299.3	5271.7	5301.6	5309.2
5°	5264.0	5282.4	5245.7	5261.7	5254.9
7.5°	5240.3	5246.4	5202.8	5215.8	5202.0
10°	5205.1	5202.0	5150.7	5175.9	5179.0
12.5°	5153.0	5143.8	5097.8	5136.1	5136.9
15°	5093.2	5073.3	5037.3	5081.7	5087.8
17.5°	5024.2	4998.2	4974.5	5031.9	5022.7
20°	4943.8	4913.2	4908.6	4971.4	4948.4
22.5°	4844.2	4820.5	4831.2	4890.9	4876.4
25°	4731.6	4710.9	4743.8	4787.5	4773.7
27.5°	4612.8	4600.6	4638.1	4671.8	4645.0
30°	4482.6	4475.7	4525.5	4553.1	4519.4
32.5°	4340.9	4343.2	4390.7	4428.2	4396.8
35°	4193.8	4203.7	4246.6	4291.8	4275.0
37.5°	4032.1	4054.3	4097.2	4148.6	4130.9
40°	3861.3	3893.4	3940.9	4003.0	3986.9
42.5°	3676.6	3717.2	3778.5	3847.5	3845.9
45°	3480.5	3537.2	3603.1	3695.0	3706.5
47.5°	3276.7	3340.3	3423.8	3546.4	3564.0
50°	3055.3	3135.0	3239.2	3386.3	3397.0
52.5°	2808.6	2917.4	3055.3	3196.3	3183.2
55°	2561.2	2684.5	2867.6	2982.5	2975.6
57.5°	2314.5	2453.1	2675.3	2757.3	2756.5
60°	2038.7	2214.1	2457.0	2519.0	2457.7
62.5°	1783.5	1972.0	2224.1	2178.9	1968.9
65°	1503.1	1738.3	1973.5	1665.6	1359.9
67.5°	1254.1	1499.3	1676.3	1140.8	976.8
70°	1003.6	1274.1	1307.0	846.6	835.1
72.5°	781.4	1069.5	901.7	724.8	761.5
75°	591.4	858.1	631.3	645.8	688.0
77.5°	431.3	658.9	491.1	566.2	600.6
80°	296.5	466.6	400.7	475.8	499.5
82.5°	186.2	308.0	321.0	383.1	407.6
85°	101.9	195.4	250.5	302.6	317.2
87.5°	42.1	118.0	191.5	233.7	245.9
90°	0.8	65.1	129.5	162.4	170.1
92.5°	0.8	49.8	105.7	131.0	136.4
95°	0.8	40.6	88.9	108.0	111.1
97.5°	1.5	32.2	74.3	89.6	92.7
100°	2.3	26.8	62.1	75.1	77.4
102.5°	3.1	21.5	52.1	62.8	65.1
105°	3.1	17.6	43.7	52.9	55.2



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CATALOG NUMBER: OHBL-15SE-A-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	5.4	10.7	26.0	32.9	34.5
115°	6.1	9.2	22.2	28.3	29.9
117.5°	6.1	7.7	19.2	23.7	25.3
120°	6.1	6.9	16.9	20.7	21.5
122.5°	6.1	6.1	14.6	18.4	19.2
125°	5.4	6.1	13.8	16.1	16.9
127.5°	6.1	6.1	12.3	14.6	15.3
130°	6.1	6.9	10.7	13.8	13.8
132.5°	6.9	7.7	10.0	13.0	13.0
135°	6.9	7.7	8.4	12.3	13.0
137.5°	7.7	7.7	7.7	11.5	12.3
140°	7.7	7.7	6.9	10.0	10.7
142.5°	6.9	7.7	6.9	9.2	10.0
145°	6.9	7.7	7.7	8.4	9.2
147.5°	7.7	7.7	7.7	7.7	8.4
150°	7.7	7.7	7.7	7.7	7.7
152.5°	7.7	7.7	7.7	7.7	7.7
155°	7.7	8.4	8.4	8.4	7.7
157.5°	7.7	8.4	8.4	8.4	8.4
160°	7.7	8.4	8.4	8.4	8.4
162.5°	8.4	8.4	8.4	8.4	8.4
165°	8.4	8.4	8.4	8.4	8.4
167.5°	8.4	9.2	8.4	8.4	8.4
170°	8.4	8.4	8.4	7.7	7.7
172.5°	8.4	8.4	8.4	7.7	7.7
175°	8.4	8.4	7.7	6.9	6.9
177.5°	9.2	8.4	7.7	6.9	6.1
180°	7.7	7.7	7.7	7.7	7.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	3.8	14.6	37.5	45.2	46.7
110°	4.6	12.3	31.4	38.3	39.8



(END OF REPORT)