

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: P827080

Luminaire Tested: **OHBL-15SE-A-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827080
REPORT IS A COMBINATION OF REPORTS P826221 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-A-UNV-L840-CD-UPL24
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

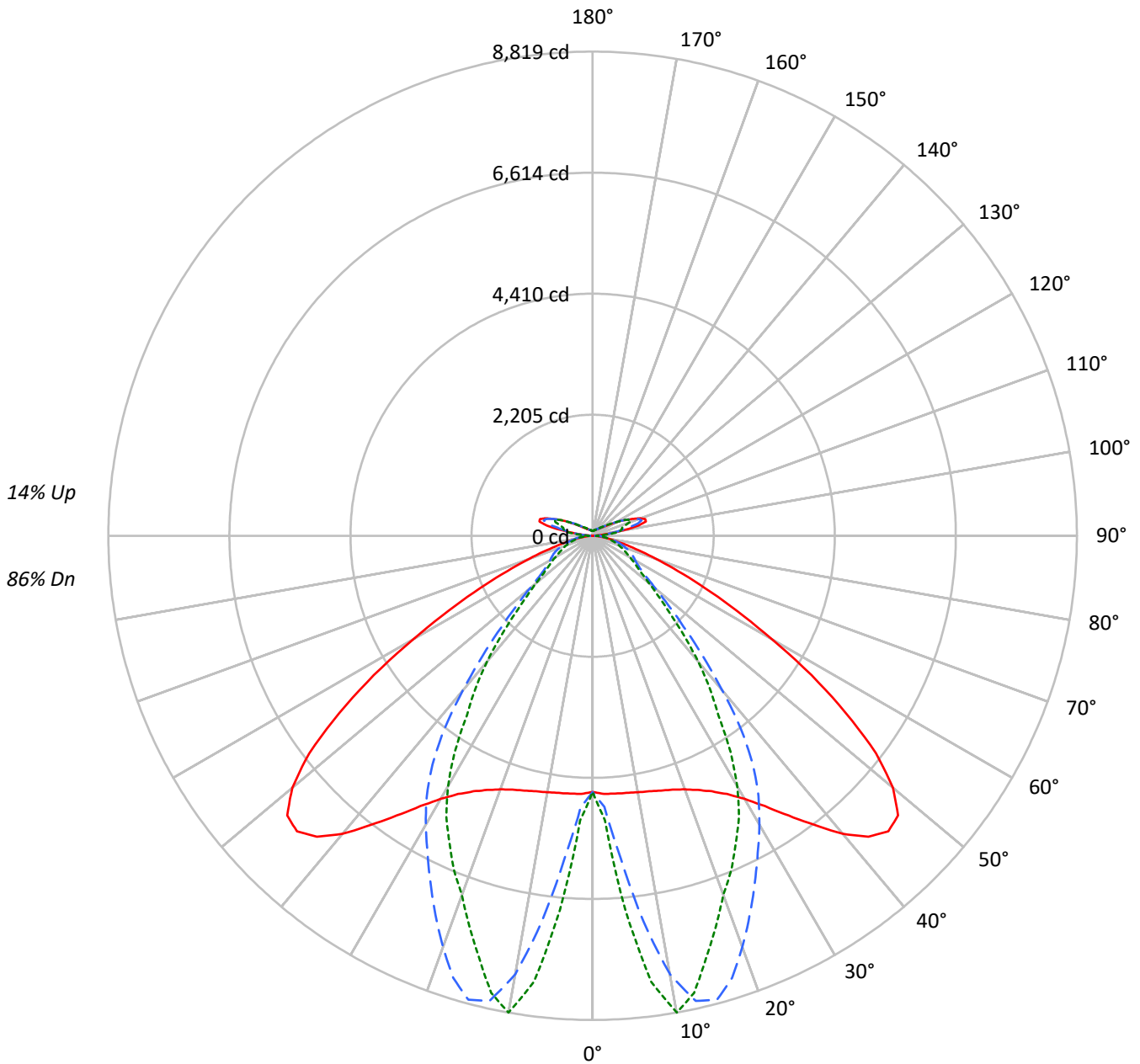
Lumens per Lamp: N/A
Luminaire Lumens: 17396.3 lumens
Efficiency: N/A
Efficacy: 166.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

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

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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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86																			
1	107	103	100	96	103	100	97	94	93	90	88	87	85	83	81	80	78	75																			
2	99	92	86	82	95	89	84	80	83	79	76	78	75	72	73	71	68	66																			
3	92	83	76	70	88	80	74	69	75	70	66	71	66	63	67	63	60	58																			
4	85	74	67	61	81	72	65	60	68	62	58	64	59	55	61	57	53	51																			
5	79	67	59	54	76	65	58	53	62	56	51	59	53	49	55	51	48	45																			
6	73	61	53	48	70	60	52	47	57	50	46	54	48	44	51	46	43	41																			
7	68	56	48	43	66	55	47	42	52	46	41	49	44	40	47	42	39	37																			
8	64	51	44	39	61	50	43	38	48	42	37	46	40	36	43	39	35	33																			
9	60	47	40	35	58	46	39	35	44	38	34	42	37	33	40	36	32	30																			
10	56	44	37	32	54	43	36	32	41	35	31	39	34	30	38	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15183	15183	15183
5°	15142	18991	22257
10°	15159	26039	28909
15°	15400	28209	26534
20°	15909	26026	23713
25°	16930	23269	21690
30°	18714	20823	19287
35°	21797	18104	15369
40°	25943	13687	12232
45°	29423	9249	8706
50°	29445	6285	6439
55°	25105	4892	5260
60°	18414	4518	4733
65°	12336	4457	4483
70°	7655	4205	4341
75°	4415	3774	4154
80°	2439	3162	4287
85°	1051	2497	3974



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.3	3.5
10°-20°	2150.4	12.4
20°-30°	3168.8	18.2
30°-40°	3329.9	19.1
40°-50°	2548.0	14.6
50°-60°	1538.6	8.8
60°-70°	938.9	5.4
70°-80°	512.5	2.9
80°-90°	186.0	1.1
90°-100°	231.8	1.3
100°-110°	804.9	4.6
110°-120°	690.5	4.0
120°-130°	331.2	1.9
130°-140°	165.7	1.0
140°-150°	96.1	0.6
150°-160°	56.0	0.3
160°-170°	29.0	0.2
170°-180°	8.8	0.1
0°-30°	5928.4	34.1
0°-40°	9258.3	53.2
0°-60°	13344.8	76.7
0°-90°	14982.2	86.1
90°-120°	1727.2	9.9
90°-150°	2320.3	13.3
90°-180°	2414.0	13.9
0°-180°	17396.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4667	4667	4667	4667	4667	
5°	4714	5057	5900	6587	6842	451
15°	4806	7485	8748	8163	7971	1366
25°	5135	8687	6984	6323	6167	2400
35°	6220	6957	5088	4237	3989	3946
45°	7613	3970	2344	2062	1976	5752
55°	5630	1346	1067	989	986	4975
65°	2257	852	785	672	637	2313
75°	601	530	486	401	385	692
85°	90	164	194	176	160	111
90°	5	34	47	62	69	8
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4666.9	4666.9	4666.9	4666.9	4666.9
2.5°	4705.2	4753.2	4942.5	5139.0	5186.9
5°	4713.8	5057.2	5899.5	6587.3	6841.5
7.5°	4723.8	5549.7	7085.2	7927.4	8196.9
10°	4742.8	6172.5	8112.7	8717.3	8819.1
12.5°	4766.4	6832.3	8678.0	8656.0	8527.6
15°	4805.6	7484.9	8747.7	8162.9	7971.0
17.5°	4846.8	8037.0	8443.9	7626.2	7459.1
20°	4913.9	8446.9	7971.4	7149.1	6959.2
22.5°	5010.5	8672.2	7475.9	6717.6	6593.7
25°	5135.2	8686.9	6983.8	6322.8	6166.7
27.5°	5302.3	8485.3	6512.1	5935.9	5771.0
30°	5529.7	8099.5	6073.8	5469.4	5264.9
32.5°	5838.5	7544.1	5621.9	4906.3	4676.9
35°	6220.3	6956.6	5087.8	4237.1	3989.3
37.5°	6637.0	6304.2	4439.6	3644.5	3500.2
40°	7085.2	5631.9	3671.3	3089.9	2986.7
42.5°	7435.1	4901.1	2957.7	2567.8	2457.9
45°	7613.4	3969.5	2343.7	2062.3	1975.6
47.5°	7543.9	3081.3	1858.0	1638.6	1612.6
50°	7138.7	2275.2	1487.3	1349.8	1339.0
52.5°	6505.1	1695.9	1228.6	1143.5	1124.9
55°	5630.3	1346.0	1066.9	988.8	985.8
57.5°	4727.2	1143.5	968.4	908.0	887.0
60°	3763.8	1019.6	893.8	825.5	782.9
62.5°	2950.3	933.0	838.9	746.3	706.4
65°	2257.2	852.1	784.9	671.6	637.4
67.5°	1682.7	775.1	718.9	593.2	573.2
70°	1226.0	696.0	643.6	527.5	511.7
72.5°	873.7	617.2	568.4	465.9	448.5
75°	601.0	529.9	486.1	401.1	384.8
77.5°	405.5	440.9	405.1	342.4	335.6
80°	270.8	349.6	327.6	290.2	286.0
82.5°	164.3	253.8	258.6	235.9	224.5
85°	89.5	164.3	193.7	176.5	160.1
87.5°	35.0	91.1	133.5	119.9	112.9
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)