

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: P827088

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827088
REPORT IS A COMBINATION OF REPORTS P826225 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-NL-UNV-L840-CD-UPL24
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

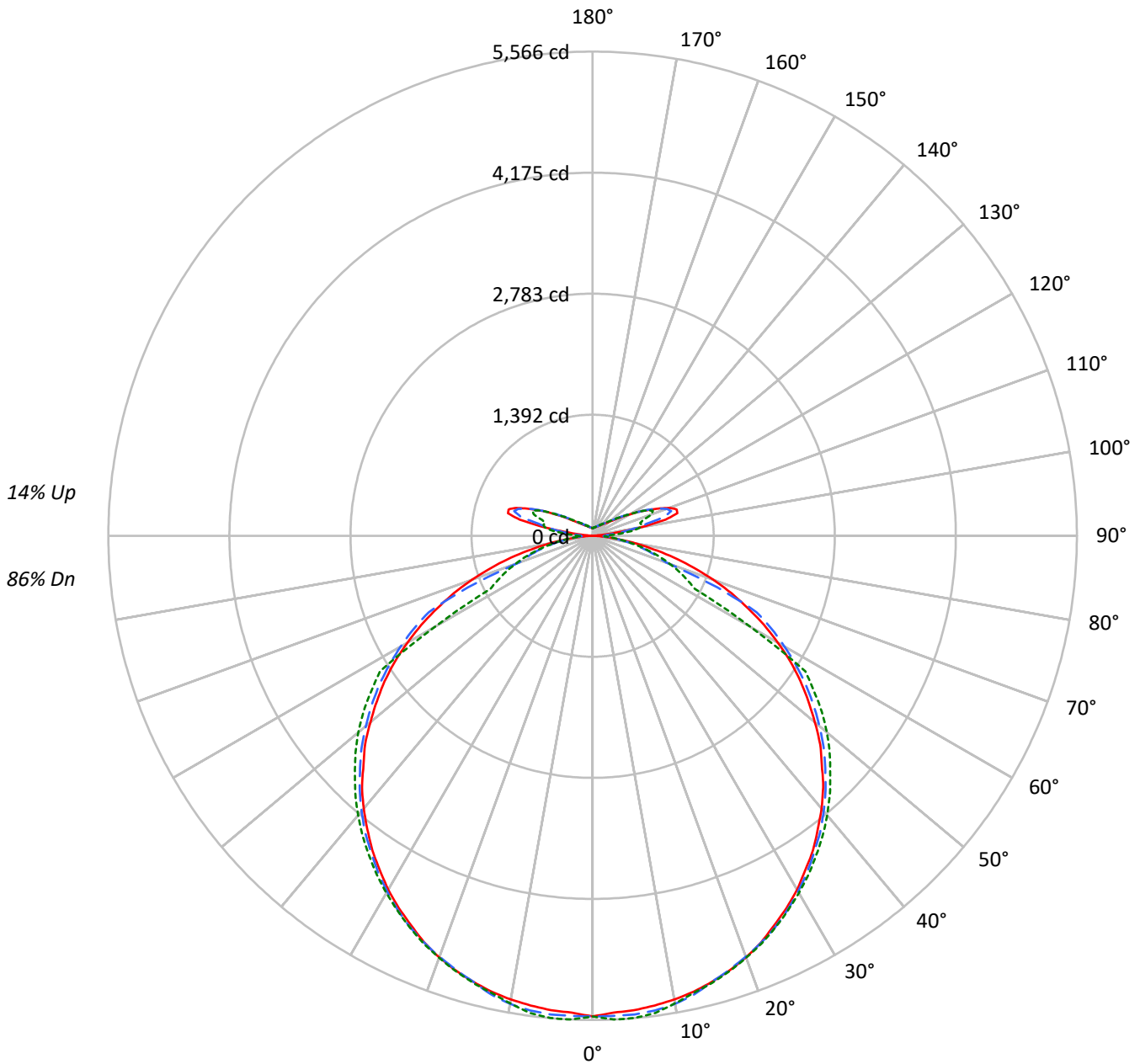
Lumens per Lamp: N/A
Luminaire Lumens: 17933.2 lumens
Efficiency: N/A
Efficacy: 171.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Semi-Direct

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	106	102	98	94	102	98	94	91	91	88	86	85	83	81	79	78	76	73																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	61																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	54	52																			
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38																			
6	68	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	38	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	29	53	41	33	28	39	32	27	37	31	26	35	29	26	24																			
10	51	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17976	17976	17976
5°	17699	17882	18132
10°	17528	17740	17945
15°	17347	17411	17788
20°	17141	17204	17700
25°	16835	17032	17619
30°	16557	16777	17542
35°	16236	16483	17473
40°	15863	16196	17422
45°	15376	15818	17314
50°	14852	15393	17244
55°	14230	14868	16952
60°	13354	14130	13096
65°	12156	13199	8723
70°	10654	6676	8339
75°	8560	5892	7775
80°	5697	4738	6808
85°	2056	3505	5890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	2.9
10°-20°	1503.0	8.4
20°-30°	2287.0	12.8
30°-40°	2780.6	15.5
40°-50°	2923.7	16.3
50°-60°	2669.7	14.9
60°-70°	1711.4	9.5
70°-80°	808.4	4.5
80°-90°	230.3	1.3
90°-100°	291.2	1.6
100°-110°	821.1	4.6
110°-120°	695.0	3.9
120°-130°	331.2	1.8
130°-140°	165.7	0.9
140°-150°	96.1	0.5
150°-160°	56.0	0.3
160°-170°	29.0	0.2
170°-180°	8.8	0.0
0°-30°	4314.9	24.1
0°-40°	7095.5	39.6
0°-60°	12688.9	70.8
0°-90°	15439.0	86.1
90°-120°	1807.3	10.1
90°-150°	2400.4	13.4
90°-180°	2494.0	13.9
0°-180°	17933.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5525	5525	5525	5525	5525	
5°	5474	5495	5523	5554	5565	521
15°	5308	5348	5307	5315	5319	1499
25°	4940	4947	4965	4973	4969	2279
35°	4415	4389	4439	4494	4481	2759
45°	3724	3717	3780	3869	3863	2878
55°	2918	2896	2994	3094	3102	2603
65°	1966	1966	2080	1194	1197	1949
75°	971	990	643	677	680	1024
85°	127	161	201	217	206	188
90°	5	88	136	168	173	9
95°	56	139	236	314	344	166
105°	1008	1003	860	616	567	957
115°	697	706	709	704	692	701
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°	5525.3	5525.3	5525.3	5525.3	5525.3
2.5°	5486.5	5505.0	5525.3	5551.5	5566.0
5°	5473.9	5495.3	5523.4	5553.5	5565.1
7.5°	5446.8	5476.8	5504.0	5525.3	5532.1
10°	5412.8	5448.8	5464.3	5462.3	5457.5
12.5°	5367.3	5405.1	5400.3	5377.9	5381.8
15°	5308.1	5347.9	5307.2	5314.9	5318.8
17.5°	5238.3	5277.1	5229.6	5245.1	5246.1
20°	5156.9	5186.0	5149.1	5161.8	5161.8
22.5°	5059.0	5079.3	5063.8	5072.6	5074.5
25°	4939.7	4947.4	4964.9	4972.7	4968.8
27.5°	4825.4	4815.6	4849.6	4868.0	4858.2
30°	4698.3	4682.8	4722.5	4752.6	4741.0
32.5°	4552.9	4543.2	4588.8	4624.6	4617.8
35°	4415.2	4389.0	4439.4	4493.7	4481.1
37.5°	4252.3	4236.8	4294.0	4351.3	4344.5
40°	4093.3	4067.1	4132.1	4200.0	4193.2
42.5°	3922.7	3891.6	3962.4	4043.9	4036.1
45°	3723.9	3717.1	3780.1	3869.3	3862.6
47.5°	3547.5	3513.6	3601.7	3688.1	3695.9
50°	3334.1	3321.6	3402.1	3506.8	3514.5
52.5°	3125.8	3117.1	3201.3	3307.0	3320.6
55°	2918.2	2896.0	2993.9	3093.8	3101.6
57.5°	2696.3	2673.0	2772.9	2881.5	2897.9
60°	2458.7	2436.4	2545.9	2646.8	2104.9
62.5°	2221.2	2205.7	2320.1	1643.4	1324.4
65°	1966.2	1966.2	2080.5	1193.5	1197.4
67.5°	1727.7	1712.2	1551.3	1072.2	1072.2
70°	1471.7	1477.6	893.8	939.5	940.4
72.5°	1214.8	1236.2	771.8	808.5	810.5
75°	971.4	989.9	642.8	676.7	679.6
77.5°	713.6	548.7	516.7	543.0	543.9
80°	501.2	346.1	395.6	420.7	417.9
82.5°	292.7	242.3	289.9	308.3	307.3
85°	127.0	160.9	200.7	217.2	205.5
87.5°	40.6	99.9	125.0	134.8	133.7
90°	5.0	88.3	136.2	167.6	172.8
92.5°	17.0	87.6	149.6	199.0	212.9
95°	55.9	139.1	236.1	314.3	344.3
97.5°	271.0	311.3	358.6	446.8	481.8
100°	554.0	602.4	503.1	548.4	558.5
102.5°	857.8	861.5	636.4	585.0	578.0
105°	1007.8	1002.7	859.5	616.5	566.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	813.9	827.8	814.7	788.8	749.9
115°	696.8	705.8	708.6	703.8	691.9
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°	1011.8	1020.6	946.5	737.7	609.9
110°	934.9	946.7	904.6	823.8	718.9



(END OF REPORT)