

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: P827087

Luminaire Tested: **OHBL-15SE-NL-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827087
REPORT IS A COMBINATION OF REPORTS P826117 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-NL-UNV-L840-CD-UPL15
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

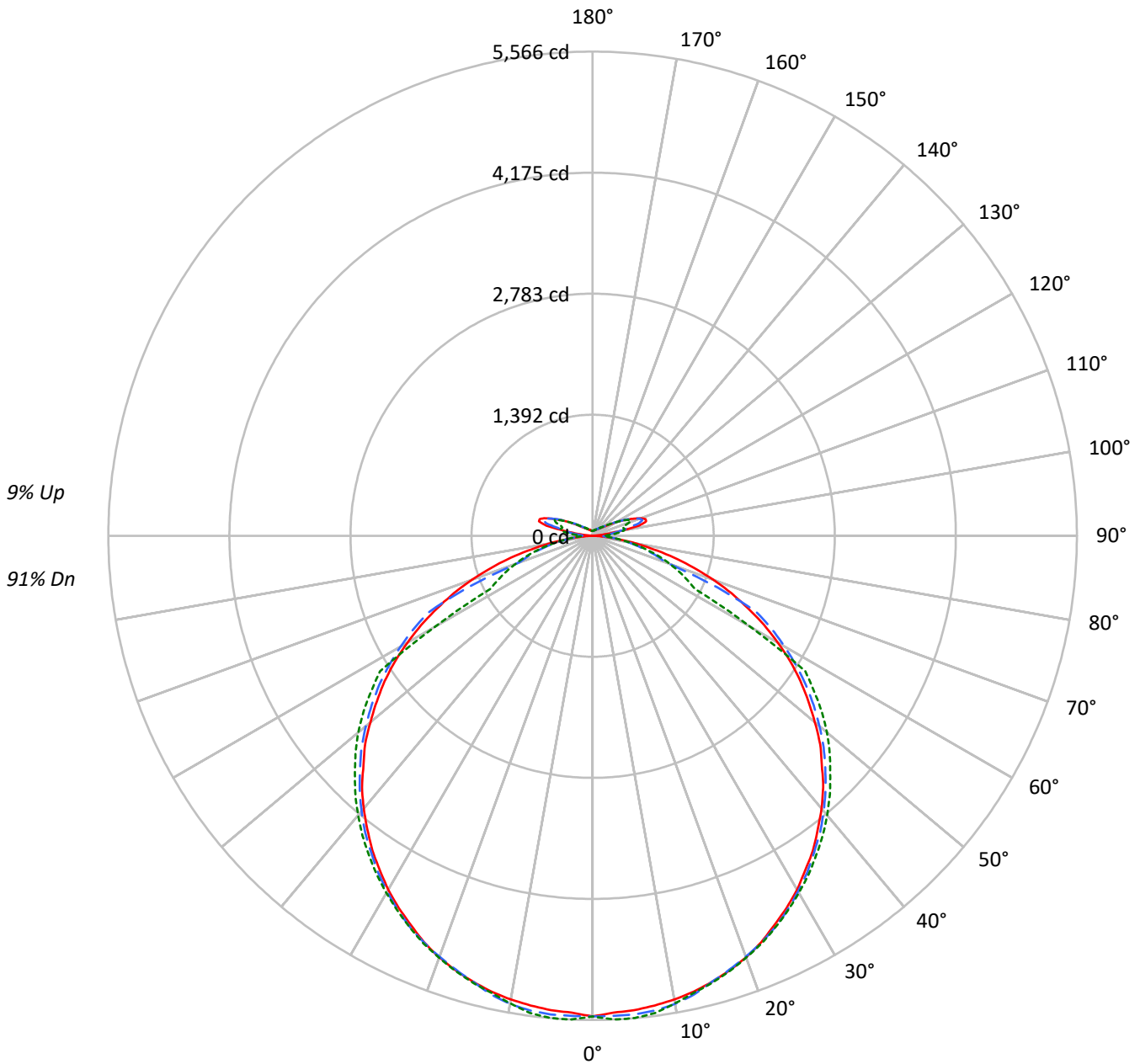
Lumens per Lamp: N/A
Luminaire Lumens: 17032.1 lumens
Efficiency: N/A
Efficacy: 175.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.1')
CIE Type: Direct

Input Watts (W): 97.3
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: P827087

CATALOG NUMBER: OHBL-15SE-NL-UNV-L840-CD-UPL15

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	106	106	106	99	99	99	93	93	93	91																			
1	107	103	99	95	103	99	96	92	93	91	88	88	86	84	83	81	79	77																			
2	98	90	83	78	94	87	81	76	82	77	73	77	73	70	73	70	67	64																			
3	89	79	71	65	86	77	69	64	72	66	61	68	63	59	65	61	57	54																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	62	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	47	41	52	45	40	49	43	38	47	42	37	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	37	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	30	39	34	30	28																			
9	56	42	34	29	54	41	34	29	40	33	28	38	32	27	36	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

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



TEST NUMBER: P827087

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.9	3.1
10°-20°	1503.0	8.8
20°-30°	2287.0	13.4
30°-40°	2780.6	16.3
40°-50°	2923.7	17.2
50°-60°	2669.7	15.7
60°-70°	1711.4	10.0
70°-80°	808.4	4.7
80°-90°	228.0	1.3
90°-100°	205.0	1.2
100°-110°	520.8	3.1
110°-120°	438.1	2.6
120°-130°	208.1	1.2
130°-140°	104.0	0.6
140°-150°	60.4	0.4
150°-160°	35.2	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	4314.9	25.3
0°-40°	7095.5	41.7
0°-60°	12688.9	74.5
0°-90°	15436.7	90.6
90°-120°	1163.9	6.8
90°-150°	1536.4	9.0
90°-180°	1595.0	9.4
0°-180°	17032.1	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°	3	76	118	144	147	8
95°	31	100	171	228	251	101
105°	638	635	548	392	360	604
115°	441	443	450	445	430	444
125°	211	223	229	227	226	199
135°	125	129	132	134	135	99
145°	91	93	95	97	97	58
155°	73	74	76	76	77	34
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



TEST NUMBER: P827087

CATALOG NUMBER: OHBL-15SE-NL-UNV-L840-CD-UPL15

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°	3.0	76.3	118.2	143.6	146.8
92.5°	10.0	70.6	123.6	161.0	171.9
95°	30.9	100.1	171.1	228.3	251.3
97.5°	168.0	207.3	249.6	302.8	322.8
100°	339.0	380.4	329.1	362.4	370.5
102.5°	546.8	537.5	405.4	379.0	374.0
105°	637.8	634.7	547.5	391.5	359.6



TEST NUMBER: P827087

CATALOG NUMBER: OHBL-15SE-NL-UNV-L840-CD-UPL15

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	514.9	523.8	517.7	496.8	471.9
115°	440.8	442.8	449.6	444.8	429.9
117.5°	374.0	372.0	376.0	374.0	372.0
120°	312.0	316.0	317.0	315.0	314.0
122.5°	258.0	266.0	271.0	268.0	267.0
125°	211.0	223.0	229.0	227.0	226.0
127.5°	180.0	187.0	195.0	195.0	193.0
130°	156.0	161.0	167.0	168.0	168.0
132.5°	139.0	143.0	148.0	149.0	150.0
135°	125.0	129.0	132.0	134.0	135.0
137.5°	115.0	117.0	121.0	122.0	123.0
140°	105.0	108.0	111.0	112.0	113.0
142.5°	98.0	100.0	102.0	104.0	104.0
145°	91.0	93.0	95.0	97.0	97.0
147.5°	86.0	88.0	90.0	90.0	91.0
150°	81.0	83.0	84.0	85.0	85.0
152.5°	77.0	78.0	80.0	80.0	81.0
155°	73.0	74.0	76.0	76.0	77.0
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	637.8	643.6	600.5	460.7	381.9
110°	589.9	597.7	574.6	519.8	450.9



(END OF REPORT)