

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: P827122

Luminaire Tested: **OHBL-18SE-NL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827122
REPORT IS A COMBINATION OF REPORTS P826165 AND G3-2310-221-8
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-NL-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

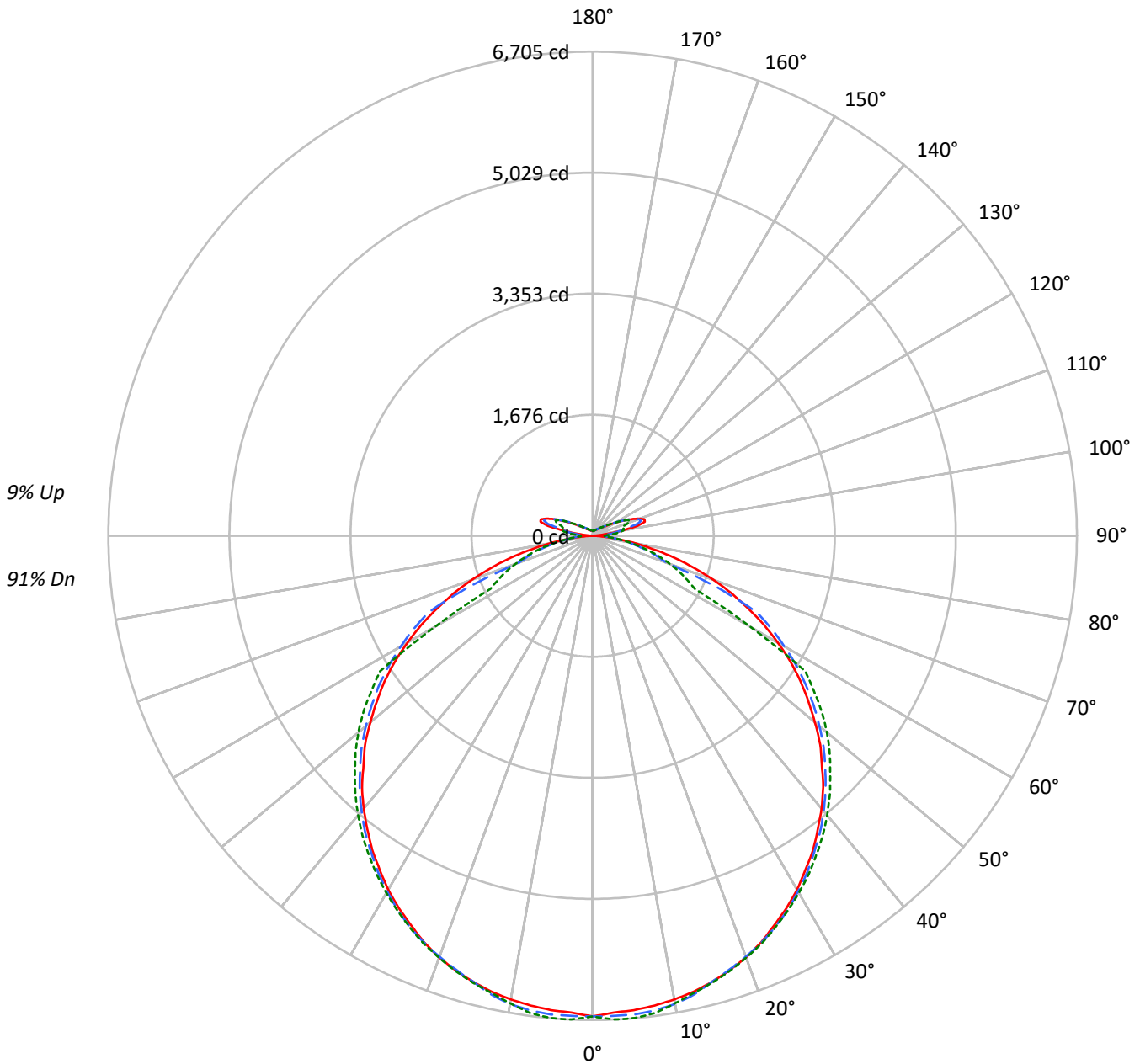
Lumens per Lamp: N/A
Luminaire Lumens: 20476.9 lumens
Efficiency: N/A
Efficacy: 174.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 117.3
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

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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	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	99	96	93	94	91	88	88	86	84	83	81	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	73	70	67	65																			
3	89	79	71	65	86	77	70	64	72	66	61	69	63	59	65	61	57	55																			
4	82	70	61	55	79	68	60	54	64	58	52	61	55	51	58	53	49	47																			
5	75	63	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	50	43	39	47	42	38	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	42	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°	11368	11368	11368
5°	11246	11347	11467
10°	11190	11294	11349
15°	11128	11122	11249
20°	11050	11029	11194
25°	10909	10959	11142
30°	10788	10837	11094
35°	10643	10693	11051
40°	10467	10557	11018
45°	10222	10365	10949
50°	9960	10150	10906
55°	9642	9877	10720
60°	9165	9473	8282
65°	8481	8955	5516
70°	7601	4604	5274
75°	6310	4161	4917
80°	4431	3480	4306
85°	1779	2788	3724



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.3	3.1
10°-20°	1810.5	8.8
20°-30°	2754.9	13.5
30°-40°	3349.5	16.4
40°-50°	3521.9	17.2
50°-60°	3215.9	15.7
60°-70°	2061.5	10.1
70°-80°	973.8	4.8
80°-90°	274.5	1.3
90°-100°	242.7	1.2
100°-110°	614.2	3.0
110°-120°	516.3	2.5
120°-130°	245.3	1.2
130°-140°	122.6	0.6
140°-150°	71.2	0.3
150°-160°	41.5	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	5197.7	25.4
0°-40°	8547.3	41.7
0°-60°	15285.1	74.6
0°-90°	18595.0	90.8
90°-120°	1373.3	6.7
90°-150°	1812.3	8.9
90°-180°	1882.0	9.2
0°-180°	20476.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6656	6656	6656	6656	6656	
5°	6594	6620	6654	6690	6704	627
15°	6394	6442	6393	6402	6407	1805
25°	5950	5960	5981	5990	5985	2746
35°	5319	5287	5348	5413	5398	3324
45°	4486	4478	4554	4661	4653	3467
55°	3515	3488	3606	3727	3736	3135
65°	2368	2368	2506	1438	1442	2348
75°	1170	1192	774	815	819	1234
85°	153	194	242	262	248	226
90°	4	90	141	172	175	10
95°	42	116	206	271	295	121
105°	747	747	645	460	425	709
115°	519	527	530	520	512	522
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6655.8	6655.8	6655.8	6655.8	6655.8
2.5°	6609.1	6631.3	6655.8	6687.4	6704.8
5°	6593.9	6619.6	6653.5	6689.7	6703.7
7.5°	6561.2	6597.3	6630.1	6655.8	6664.0
10°	6520.3	6563.6	6582.3	6579.9	6574.1
12.5°	6465.4	6511.0	6505.2	6478.3	6483.0
15°	6394.2	6442.0	6393.1	6402.4	6407.0
17.5°	6310.1	6356.8	6299.6	6318.3	6319.5
20°	6212.1	6247.0	6202.7	6217.9	6217.9
22.5°	6094.1	6118.6	6099.9	6110.4	6112.8
25°	5950.4	5959.7	5980.7	5990.1	5985.4
27.5°	5812.7	5800.9	5841.9	5864.0	5852.2
30°	5659.6	5640.9	5688.8	5725.0	5711.0
32.5°	5484.4	5472.8	5527.7	5570.8	5562.7
35°	5318.6	5287.0	5347.8	5413.2	5398.0
37.5°	5122.4	5103.7	5172.6	5241.5	5233.4
40°	4930.8	4899.3	4977.6	5059.3	5051.1
42.5°	4725.3	4687.9	4773.2	4871.3	4861.9
45°	4485.8	4477.7	4553.6	4661.0	4652.9
47.5°	4273.4	4232.5	4338.7	4442.7	4452.1
50°	4016.3	4001.2	4098.2	4224.3	4233.6
52.5°	3765.3	3754.8	3856.3	3983.7	4000.0
55°	3515.3	3488.5	3606.4	3726.7	3736.1
57.5°	3248.0	3219.9	3340.2	3471.0	3490.8
60°	2961.7	2934.9	3066.8	3188.4	2535.5
62.5°	2675.6	2656.9	2794.8	1979.6	1595.4
65°	2368.5	2368.5	2506.2	1437.7	1442.3
67.5°	2081.2	2062.6	1868.7	1291.6	1291.6
70°	1772.9	1779.9	1076.7	1131.7	1132.9
72.5°	1463.4	1489.1	929.7	974.0	976.3
75°	1170.2	1192.5	774.3	815.2	818.7
77.5°	859.6	661.0	622.4	654.1	655.2
80°	603.8	416.9	476.5	506.8	503.4
82.5°	352.6	291.9	349.2	371.4	370.2
85°	153.0	193.9	241.7	261.6	247.5
87.5°	49.0	120.3	150.6	162.3	161.1
90°	4.0	90.4	141.4	172.2	175.0
92.5°	13.0	84.3	148.5	192.8	202.0
95°	41.5	115.9	206.2	271.0	295.0
97.5°	197.3	237.5	292.9	363.7	382.1
100°	404.3	441.8	390.2	429.4	436.6
102.5°	634.8	644.3	476.1	447.3	442.6
105°	746.8	746.9	644.7	459.7	424.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.0	615.4	606.9	587.4	554.1
115°	518.8	527.2	529.6	520.2	512.1
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
157.5°	83.0	84.0	85.0	86.0	86.0
160°	80.0	80.0	81.0	82.0	82.0
162.5°	77.0	77.0	78.0	79.0	79.0
165°	74.0	75.0	75.0	76.0	76.0
167.5°	72.0	72.0	73.0	73.0	74.0
170°	70.0	70.0	71.0	71.0	71.0
172.5°	68.0	69.0	69.0	69.0	69.0
175°	67.0	67.0	68.0	68.0	68.0
177.5°	66.0	67.0	67.0	67.0	67.0
180°	67.0	67.0	67.0	67.0	67.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	753.8	759.6	706.3	546.5	452.5
110°	692.0	703.5	677.0	612.4	535.1



(END OF REPORT)