

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: P827125

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827125
REPORT IS A COMBINATION OF REPORTS P826166 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-W-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

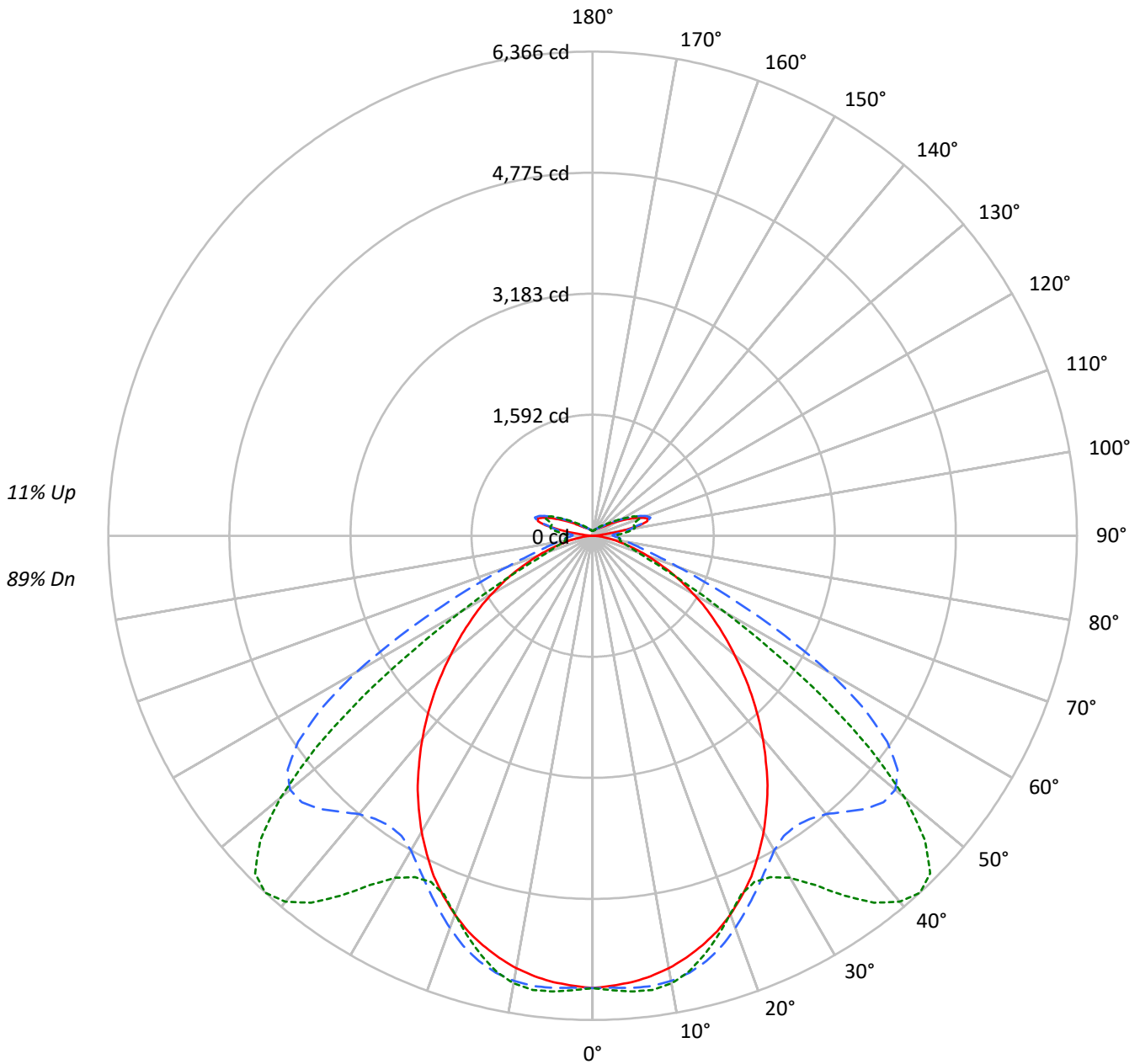
Lumens per Lamp: N/A
Luminaire Lumens: 19594.9 lumens
Efficiency: N/A
Efficacy: 167.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	93	90	87	87	84	82	82	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	64	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	46																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	42	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	38	46	41	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	31	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10157	10157	10157
5°	10013	10142	10272
10°	9839	10127	10285
15°	9600	9959	9955
20°	9290	9617	9467
25°	8894	9203	9277
30°	8384	8894	9983
35°	7813	9059	11683
40°	7160	9811	13506
45°	6482	11129	14517
50°	5781	12305	13509
55°	5121	12290	10322
60°	4453	10397	6311
65°	3753	7179	3823
70°	2975	4640	2760
75°	2183	3325	2559
80°	1474	2919	2887
85°	880	3206	4563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.3	2.9
10°-20°	1609.1	8.2
20°-30°	2354.7	12.0
30°-40°	3058.1	15.6
40°-50°	3734.3	19.1
50°-60°	3288.6	16.8
60°-70°	1713.7	8.7
70°-80°	734.9	3.8
80°-90°	357.4	1.8
90°-100°	337.0	1.7
100°-110°	697.7	3.6
110°-120°	571.8	2.9
120°-130°	278.5	1.4
130°-140°	139.2	0.7
140°-150°	79.2	0.4
150°-160°	44.3	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	4532.1	23.1
0°-40°	7590.2	38.7
0°-60°	14613.1	74.6
0°-90°	17419.2	88.9
90°-120°	1606.5	8.2
90°-150°	2103.3	10.7
90°-180°	2176.0	11.1
0°-180°	19594.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5946	5946	5946	5946	5946	
5°	5891	5936	5968	6021	6014	559
15°	5574	5731	5786	5743	5696	1570
25°	4939	5204	5115	5019	5024	2267
35°	4009	4433	4655	5428	5776	2499
45°	2952	3714	5077	6147	6275	2276
55°	1966	3254	4728	4145	3685	1764
65°	1128	2254	2164	1203	1035	1116
75°	454	1055	695	476	452	495
85°	96	376	354	346	350	107
90°	5	161	268	312	323	10
95°	41	162	315	385	416	122
105°	746	779	747	586	554	708
115°	521	545	592	603	605	525
125°	259	275	313	324	324	243
135°	156	159	176	193	195	123
145°	118	118	122	131	133	74
155°	96	98	97	98	98	44
165°	74	75	75	76	76	21
175°	67	67	68	68	68	6
180°	67	67	67	67	67	



TEST NUMBER: P827125

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5946.5	5946.5	5946.5	5946.5	5946.5
2.5°	5920.9	5946.5	5947.8	5983.8	5979.9
5°	5891.4	5936.3	5968.4	6021.0	6014.5
7.5°	5842.6	5913.2	5969.6	6027.4	6022.2
10°	5773.3	5869.6	5944.0	5991.4	5976.1
12.5°	5683.5	5810.6	5883.7	5893.9	5864.4
15°	5574.5	5731.0	5786.2	5742.6	5696.4
17.5°	5451.3	5634.8	5654.0	5559.1	5501.4
20°	5297.4	5506.5	5487.2	5356.4	5292.2
22.5°	5126.7	5365.4	5303.8	5166.5	5104.9
25°	4939.4	5203.7	5115.2	5019.0	5024.1
27.5°	4720.0	5020.2	4934.3	4977.9	5060.0
30°	4496.8	4827.8	4775.2	5029.2	5190.9
32.5°	4251.7	4630.2	4677.7	5179.3	5443.6
35°	4009.3	4432.6	4654.6	5428.2	5775.9
37.5°	3741.1	4232.5	4691.8	5715.6	6080.0
40°	3480.7	4037.5	4776.5	5973.5	6281.4
42.5°	3215.1	3863.0	4918.9	6126.2	6366.1
45°	2952.1	3714.2	5076.7	6146.7	6275.0
47.5°	2689.1	3588.5	5185.7	5983.8	5924.7
50°	2435.1	3476.8	5193.4	5592.4	5351.2
52.5°	2197.7	3374.2	5052.3	4968.9	4594.3
55°	1965.5	3253.6	4727.7	4145.3	3684.7
57.5°	1753.8	3086.8	4227.4	3260.0	2757.1
60°	1529.3	2861.0	3580.8	2385.0	1988.6
62.5°	1322.7	2580.0	2855.9	1660.2	1429.2
65°	1127.7	2254.2	2164.4	1203.4	1035.4
67.5°	921.2	1916.8	1597.3	877.5	769.8
70°	759.5	1603.7	1189.3	682.5	619.7
72.5°	594.0	1306.1	889.1	554.2	519.6
75°	454.2	1054.6	695.4	476.0	451.6
77.5°	334.9	833.9	559.4	420.8	397.7
80°	234.8	656.9	468.3	375.9	366.9
82.5°	157.8	508.1	399.0	357.9	359.2
85°	96.2	375.9	354.1	346.4	350.2
87.5°	46.2	266.9	304.1	315.6	319.5
90°	5.3	161.0	267.5	311.9	323.3
92.5°	13.0	136.9	260.3	314.6	329.0
95°	40.6	161.5	315.0	385.1	415.5
97.5°	197.6	278.4	404.8	482.1	502.0
100°	405.8	478.5	502.8	551.9	561.7
102.5°	632.8	678.0	587.4	571.7	568.2
105°	746.1	778.9	746.6	586.0	554.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.7	636.8	678.7	680.6	658.2
115°	520.7	544.7	592.4	603.1	604.7
117.5°	446.0	463.1	507.4	520.8	523.1
120°	374.0	391.2	432.5	444.8	444.1
122.5°	314.0	329.4	369.0	380.1	379.4
125°	259.0	274.8	312.6	324.5	323.7
127.5°	219.7	230.0	267.2	279.0	278.3
130°	191.7	198.7	227.8	241.6	245.2
132.5°	172.7	175.7	199.7	213.5	218.1
135°	155.7	158.7	176.5	192.6	194.9
137.5°	142.7	145.7	158.7	173.5	177.1
140°	131.7	134.7	142.8	157.7	159.9
142.5°	124.0	125.7	132.5	143.8	146.1
145°	118.3	117.7	122.0	130.7	133.2
147.5°	111.3	112.0	114.0	121.1	122.4
150°	105.3	107.3	106.7	110.3	113.8
152.5°	101.3	102.3	101.7	102.7	105.3
155°	96.3	98.3	96.7	97.7	97.7
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°	754.4	787.8	797.8	665.6	581.1
110°	691.4	727.6	757.9	718.5	652.0



(END OF REPORT)