

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: P827124

Luminaire Tested: **OHBL-18SE-W-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827124
REPORT IS A COMBINATION OF REPORTS P826070 AND G3-2310-221-12
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-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

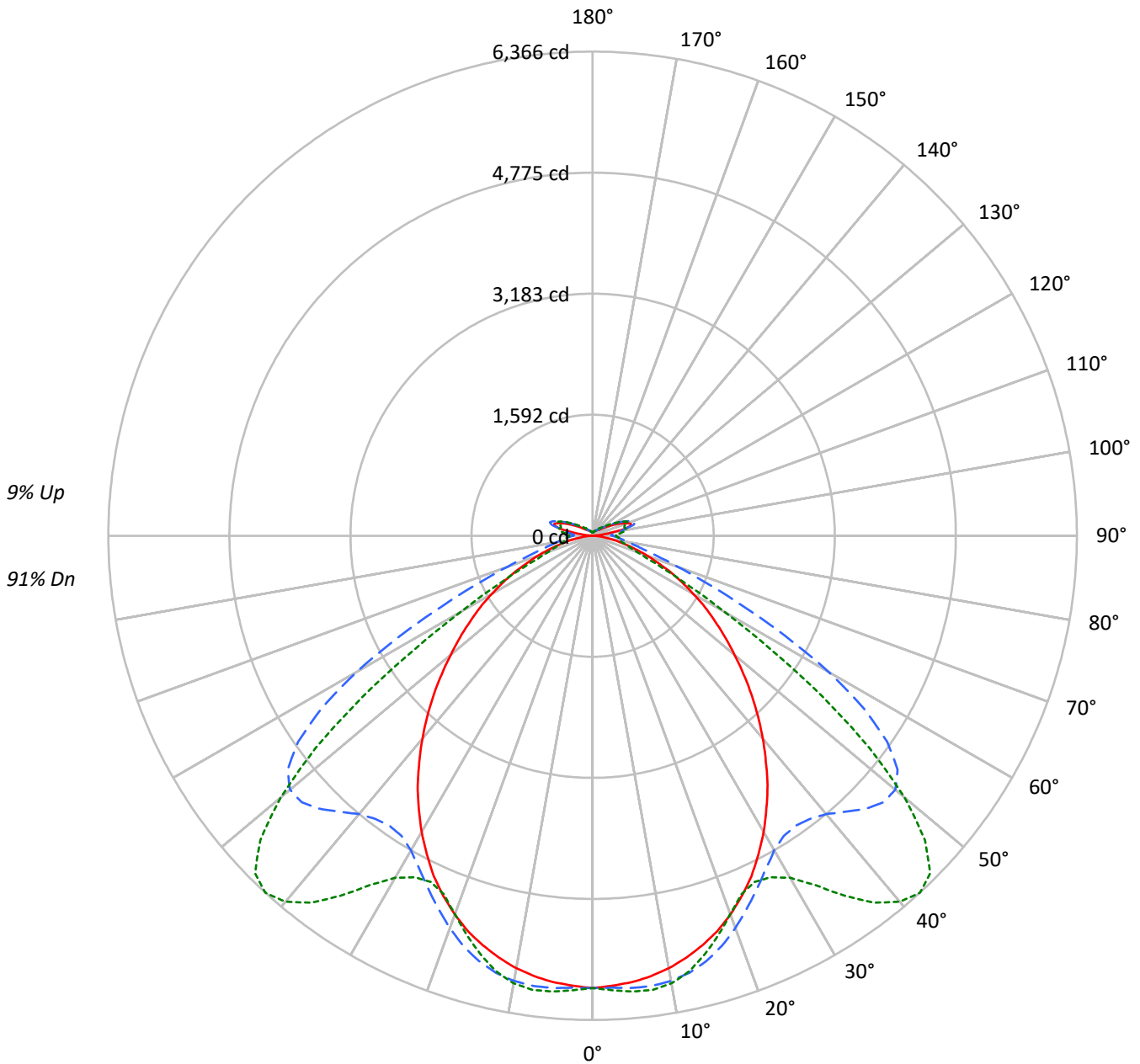
Lumens per Lamp: N/A
Luminaire Lumens: 19050.3 lumens
Efficiency: N/A
Efficacy: 168.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
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	117	117	117	117	113	113	113	113	106	106	106	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	84	82	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	74	70	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	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	62	54	47	72	61	53	46	58	51	45	55	49	44	52	47	43	40																			
6	69	56	47	41	67	55	46	40	52	45	39	49	43	38	47	42	37	35																			
7	64	50	42	36	62	49	41	35	47	40	35	45	38	34	43	37	33	31																			
8	59	46	37	32	57	45	37	31	43	36	31	41	35	30	39	34	29	27																			
9	55	42	34	28	53	41	33	28	39	32	27	38	31	27	36	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	35	29	24	33	28	24	22																			

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	3.0
10°-20°	1609.1	8.4
20°-30°	2354.7	12.4
30°-40°	3058.1	16.1
40°-50°	3734.3	19.6
50°-60°	3288.6	17.3
60°-70°	1713.7	9.0
70°-80°	734.9	3.9
80°-90°	356.1	1.9
90°-100°	284.8	1.5
100°-110°	517.0	2.7
110°-120°	416.5	2.2
120°-130°	203.5	1.1
130°-140°	101.9	0.5
140°-150°	57.6	0.3
150°-160°	31.7	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4532.1	23.8
0°-40°	7590.2	39.8
0°-60°	14613.1	76.7
0°-90°	17417.8	91.4
90°-120°	1218.2	6.4
90°-150°	1581.2	8.3
90°-180°	1632.0	8.6
0°-180°	19050.3	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°	4	154	258	298	308	9
95°	28	138	272	334	358	84
105°	522	556	557	454	432	495
115°	368	386	435	449	446	368
125°	185	196	231	242	244	172
135°	110	113	130	145	146	87
145°	85	85	87	96	99	54
155°	70	71	70	71	71	31
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



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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°	4.3	154.0	257.5	297.9	308.3
92.5°	9.0	126.9	243.3	292.6	304.0
95°	27.6	137.5	272.0	334.1	358.5
97.5°	137.6	212.4	332.8	396.1	410.0
100°	279.8	353.5	395.8	438.9	447.7
102.5°	442.8	483.0	449.4	447.7	445.2
105°	522.1	555.9	556.6	454.0	431.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	425.7	451.8	502.7	504.6	490.2
115°	367.7	385.7	435.4	449.1	445.7
117.5°	311.0	329.1	374.4	386.8	386.1
120°	262.0	278.2	317.5	328.8	330.1
122.5°	222.0	233.4	271.0	282.1	284.4
125°	185.0	195.8	230.6	241.5	243.7
127.5°	154.7	162.0	197.2	209.0	210.3
130°	135.7	139.7	167.8	181.6	184.2
132.5°	121.7	124.7	146.7	160.5	164.1
135°	109.7	112.7	129.5	144.6	145.9
137.5°	101.7	103.7	115.7	129.5	133.1
140°	93.7	96.7	103.8	117.7	118.9
142.5°	89.0	89.7	95.5	106.8	109.1
145°	85.3	84.7	87.0	95.7	99.2
147.5°	80.3	81.0	83.0	88.1	90.4
150°	77.3	78.3	76.7	80.3	82.8
152.5°	73.3	74.3	72.7	73.7	76.3
155°	70.3	71.3	69.7	70.7	70.7
157.5°	57.0	59.0	59.0	60.0	60.0
160°	55.0	56.0	57.0	57.0	57.0
162.5°	53.0	54.0	54.0	55.0	55.0
165°	52.0	52.0	53.0	53.0	53.0
167.5°	50.0	50.0	51.0	51.0	51.0
170°	49.0	49.0	49.0	50.0	50.0
172.5°	48.0	48.0	48.0	48.0	48.0
175°	47.0	47.0	47.0	47.0	47.0
177.5°	46.0	47.0	47.0	47.0	47.0
180°	46.0	46.0	46.0	46.0	46.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	526.4	561.8	588.8	502.6	441.1
110°	482.4	517.6	555.9	535.5	487.0



(END OF REPORT)