

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: P827115

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827115
REPORT IS A COMBINATION OF REPORTS P826067 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-MFL-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

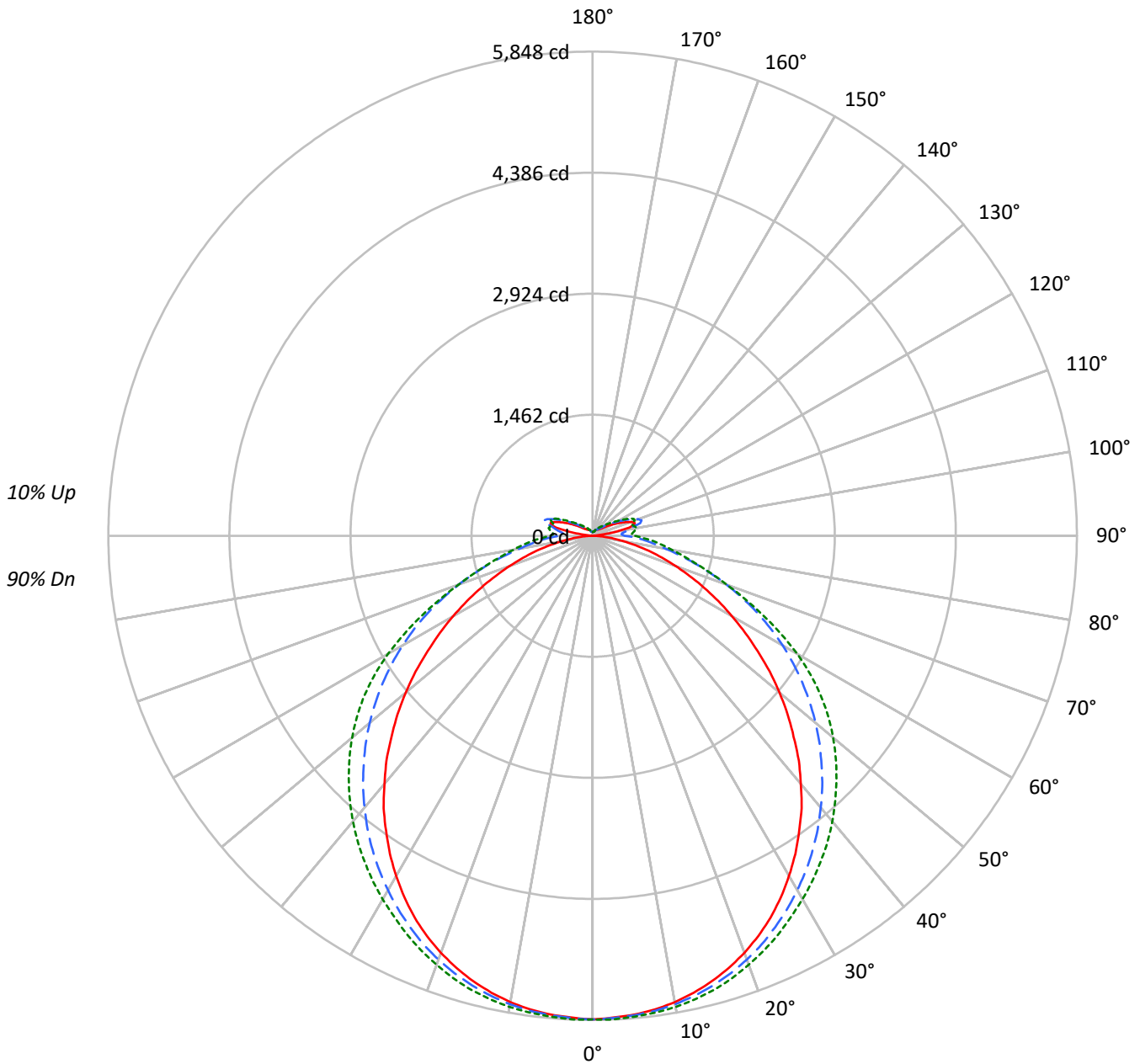
Lumens per Lamp: N/A
Luminaire Lumens: 18729.3 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

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	99	99	99	93	93	93	90																			
1	106	101	97	93	102	98	94	90	92	89	86	86	84	81	81	79	77	74																			
2	96	88	81	75	93	85	79	73	80	75	70	75	71	67	71	67	64	62																			
3	88	77	69	62	84	75	67	61	70	64	59	66	61	57	63	58	54	52																			
4	80	68	59	53	77	66	58	52	63	56	50	59	53	48	56	51	47	44																			
5	74	61	52	45	71	59	51	45	56	49	43	53	47	42	50	45	41	38																			
6	68	55	46	39	65	53	45	39	51	43	38	48	42	37	46	40	36	33																			
7	63	50	41	35	61	48	40	34	46	39	33	44	37	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	38	33	28	26																			
9	55	41	33	28	53	40	33	27	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	33	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9978	9978	9978
5°	9866	9879	9956
10°	9749	9787	9946
15°	9593	9679	9920
20°	9400	9547	9862
25°	9160	9383	9806
30°	8845	9206	9751
35°	8475	9018	9714
40°	8041	8801	9683
45°	7538	8566	9635
50°	6993	8327	9572
55°	6337	8035	9425
60°	5666	7692	9052
65°	4939	7255	8383
70°	4156	6699	7668
75°	3359	6057	7292
80°	2396	5579	7639
85°	1333	5747	9576



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.6	3.0
10°-20°	1588.1	8.5
20°-30°	2401.7	12.8
30°-40°	2883.2	15.4
40°-50°	2977.9	15.9
50°-60°	2679.2	14.3
60°-70°	2018.2	10.8
70°-80°	1218.7	6.5
80°-90°	599.2	3.2
90°-100°	369.9	2.0
100°-110°	557.1	3.0
110°-120°	439.6	2.3
120°-130°	217.9	1.2
130°-140°	110.3	0.6
140°-150°	61.8	0.3
150°-160°	33.4	0.2
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	4543.3	24.3
0°-40°	7426.6	39.7
0°-60°	13083.7	69.9
0°-90°	16919.7	90.3
90°-120°	1366.6	7.3
90°-150°	1756.6	9.4
90°-180°	1810.0	9.7
0°-180°	18729.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5842	5842	5842	5842	5842	
5°	5805	5820	5813	5836	5829	551
15°	5570	5598	5623	5670	5676	1570
25°	5087	5143	5216	5297	5310	2340
35°	4349	4451	4634	4774	4802	2719
45°	3433	3606	3908	4120	4165	2650
55°	2432	2684	3091	3324	3364	2180
65°	1484	1787	2188	2296	2270	1474
75°	699	1004	1267	1300	1287	746
85°	146	385	635	722	735	168
90°	3	168	387	488	511	11
95°	32	160	358	462	493	88
105°	527	570	593	515	498	499
115°	371	393	458	488	488	372
125°	187	199	246	269	275	174
135°	112	118	139	162	167	89
145°	89	90	92	105	110	56
155°	74	77	76	76	77	32
165°	52	52	53	53	53	15
175°	47	47	47	47	47	5
180°	46	46	46	46	46	



TEST NUMBER: P827115

CATALOG NUMBER: OHBL-18SE-MFL-UNV-L840-CD-UPL12

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5842.0	5842.0	5842.0	5842.0	5842.0
2.5°	5824.8	5839.1	5830.5	5849.1	5847.7
5°	5804.8	5820.5	5813.4	5836.2	5829.1
7.5°	5770.5	5787.6	5786.2	5811.9	5809.1
10°	5720.4	5739.0	5744.7	5779.1	5779.1
12.5°	5651.8	5676.1	5690.4	5731.9	5733.3
15°	5570.3	5597.5	5623.2	5670.4	5676.1
17.5°	5471.7	5506.0	5541.7	5596.0	5603.2
20°	5360.1	5398.7	5447.3	5504.5	5513.1
22.5°	5231.5	5277.2	5340.1	5407.3	5417.3
25°	5087.1	5142.8	5215.7	5297.2	5310.1
27.5°	4922.6	4987.0	5085.6	5177.1	5188.6
30°	4743.9	4819.7	4942.6	5051.3	5069.9
32.5°	4555.2	4642.4	4794.0	4915.5	4941.2
35°	4349.3	4450.8	4633.8	4773.9	4802.5
37.5°	4146.3	4257.8	4465.1	4625.2	4659.6
40°	3908.9	4047.6	4285.0	4462.3	4503.7
42.5°	3685.9	3836.0	4104.8	4297.8	4337.9
45°	3432.8	3605.8	3907.5	4120.5	4164.9
47.5°	3195.5	3382.8	3717.4	3937.5	3983.3
50°	2945.3	3151.2	3514.3	3744.5	3791.7
52.5°	2695.1	2916.7	3304.2	3542.9	3587.2
55°	2432.0	2683.6	3091.1	3324.2	3364.2
57.5°	2187.5	2453.5	2872.4	3094.0	3118.3
60°	1945.9	2221.8	2649.3	2843.8	2852.4
62.5°	1710.0	2000.2	2420.6	2575.0	2563.5
65°	1484.1	1787.2	2187.5	2296.2	2270.4
67.5°	1266.8	1579.9	1948.7	2018.8	1984.5
70°	1060.9	1378.3	1717.1	1752.9	1721.4
72.5°	879.3	1186.7	1482.7	1512.7	1489.8
75°	699.1	1003.7	1266.8	1299.6	1286.8
77.5°	530.4	826.4	1068.0	1110.9	1113.8
80°	381.7	664.8	895.0	962.2	970.8
82.5°	251.6	516.1	750.6	836.4	849.3
85°	145.8	384.6	634.8	722.0	734.9
87.5°	62.9	277.4	510.4	589.1	604.8
90°	3.0	168.1	387.2	488.5	511.1
92.5°	13.3	147.4	349.7	451.5	472.2
95°	32.1	159.5	357.7	462.0	492.9
97.5°	143.6	232.8	401.9	497.7	520.5
100°	284.6	371.3	451.5	522.5	538.9
102.5°	447.6	498.8	494.7	517.6	522.6
105°	527.0	569.6	593.3	514.9	498.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	429.4	459.6	526.7	547.8	536.6
115°	371.4	392.9	458.2	488.1	487.8
117.5°	314.9	334.6	394.8	423.2	425.5
120°	265.9	283.3	336.8	361.4	367.1
122.5°	225.9	238.0	288.2	312.4	317.7
125°	187.4	198.7	245.6	269.4	274.6
127.5°	157.0	165.9	210.0	234.8	239.1
130°	138.0	143.4	179.9	205.2	209.5
132.5°	124.0	129.9	156.7	180.6	187.3
135°	112.0	117.9	139.0	161.5	167.2
137.5°	104.0	108.9	123.3	144.3	151.0
140°	97.4	101.9	111.0	129.2	134.9
142.5°	92.9	94.9	99.7	116.5	121.7
145°	89.3	89.9	92.3	104.7	110.0
147.5°	84.3	86.3	88.3	94.0	99.3
150°	81.3	83.7	83.3	85.7	90.0
152.5°	77.3	79.7	79.3	78.9	81.7
155°	74.3	76.7	76.3	75.9	77.3
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°	530.0	573.5	619.7	556.0	499.2
110°	486.0	528.8	584.0	583.0	539.1



(END OF REPORT)