

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: P827116

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827116
REPORT IS A COMBINATION OF REPORTS P826163 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-MFL-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

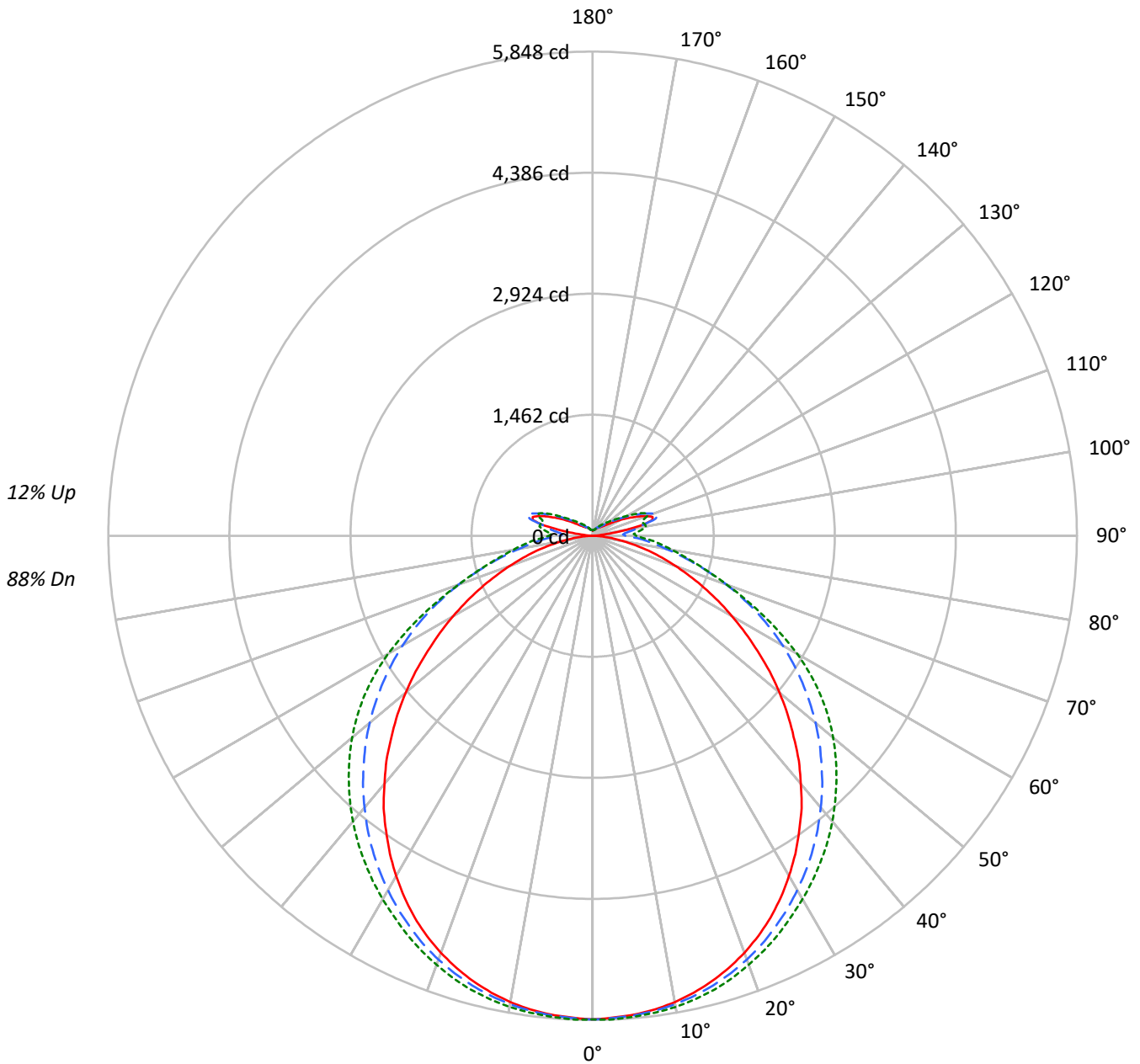
Lumens per Lamp: N/A
Luminaire Lumens: 19273.9 lumens
Efficiency: N/A
Efficacy: 164.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

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				20				
RC	80				70				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	104	104	104	97	97	97	91	91	91	88			
1	105	100	96	92	101	97	93	89	91	87	84	85	82	80	79	77	75	72			
2	96	87	81	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60			
3	87	77	69	62	84	74	67	61	69	63	58	65	60	56	61	57	53	50			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	50	46	43			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	40	37			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32			
7	63	49	41	35	60	48	40	34	45	38	33	43	37	32	40	35	31	29			
8	58	45	37	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23			
10	51	38	30	25	49	37	30	25	35	29	24	33	27	23	32	26	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	2.9
10°-20°	1588.1	8.2
20°-30°	2401.7	12.5
30°-40°	2883.2	15.0
40°-50°	2977.9	15.5
50°-60°	2679.2	13.9
60°-70°	2018.2	10.5
70°-80°	1218.7	6.3
80°-90°	600.5	3.1
90°-100°	422.1	2.2
100°-110°	737.8	3.8
110°-120°	594.9	3.1
120°-130°	292.9	1.5
130°-140°	147.6	0.8
140°-150°	83.3	0.4
150°-160°	46.1	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	4543.3	23.6
0°-40°	7426.6	38.5
0°-60°	13083.7	67.9
0°-90°	16921.0	87.8
90°-120°	1754.9	9.1
90°-150°	2278.7	11.8
90°-180°	2353.0	12.2
0°-180°	19273.9	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°	4	175	397	502	526	12
95°	45	184	401	513	550	126
105°	751	793	783	647	622	713
115°	524	552	615	642	647	529
125°	261	278	328	352	355	245
135°	158	164	186	210	216	125
145°	122	123	127	140	144	77
155°	100	104	103	103	104	45
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°	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°	4.0	175.1	397.2	502.5	526.1
92.5°	17.3	157.4	366.7	473.5	497.2
95°	45.1	183.5	400.7	513.0	549.9
97.5°	203.6	298.8	473.9	583.7	612.5
100°	410.6	496.3	558.5	635.5	652.9
102.5°	637.6	693.8	632.7	641.6	645.6
105°	751.0	792.6	783.3	646.9	621.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	613.4	644.6	702.7	723.8	704.6
115°	524.4	551.9	615.2	642.1	646.8
117.5°	449.9	468.6	527.8	557.2	562.5
120°	377.9	396.3	451.8	477.4	481.1
122.5°	317.9	334.0	386.2	410.4	412.7
125°	261.4	277.7	327.6	352.4	354.6
127.5°	222.0	233.9	280.0	304.8	307.1
130°	194.0	202.4	239.9	265.2	270.5
132.5°	175.0	180.9	209.7	233.6	241.3
135°	158.0	163.9	186.0	209.5	216.2
137.5°	145.0	150.9	166.3	188.3	195.0
140°	135.4	139.9	150.0	169.2	175.9
142.5°	127.9	130.9	136.7	153.5	158.7
145°	122.3	122.9	127.3	139.7	144.0
147.5°	115.3	117.3	119.3	127.0	131.3
150°	109.3	112.7	113.3	115.7	121.0
152.5°	105.3	107.7	108.3	107.9	110.7
155°	100.3	103.7	103.3	102.9	104.3
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°	758.0	799.5	828.7	719.0	639.2
110°	695.0	738.8	786.0	766.0	704.1



(END OF REPORT)