

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: P829977

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P829977
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
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
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

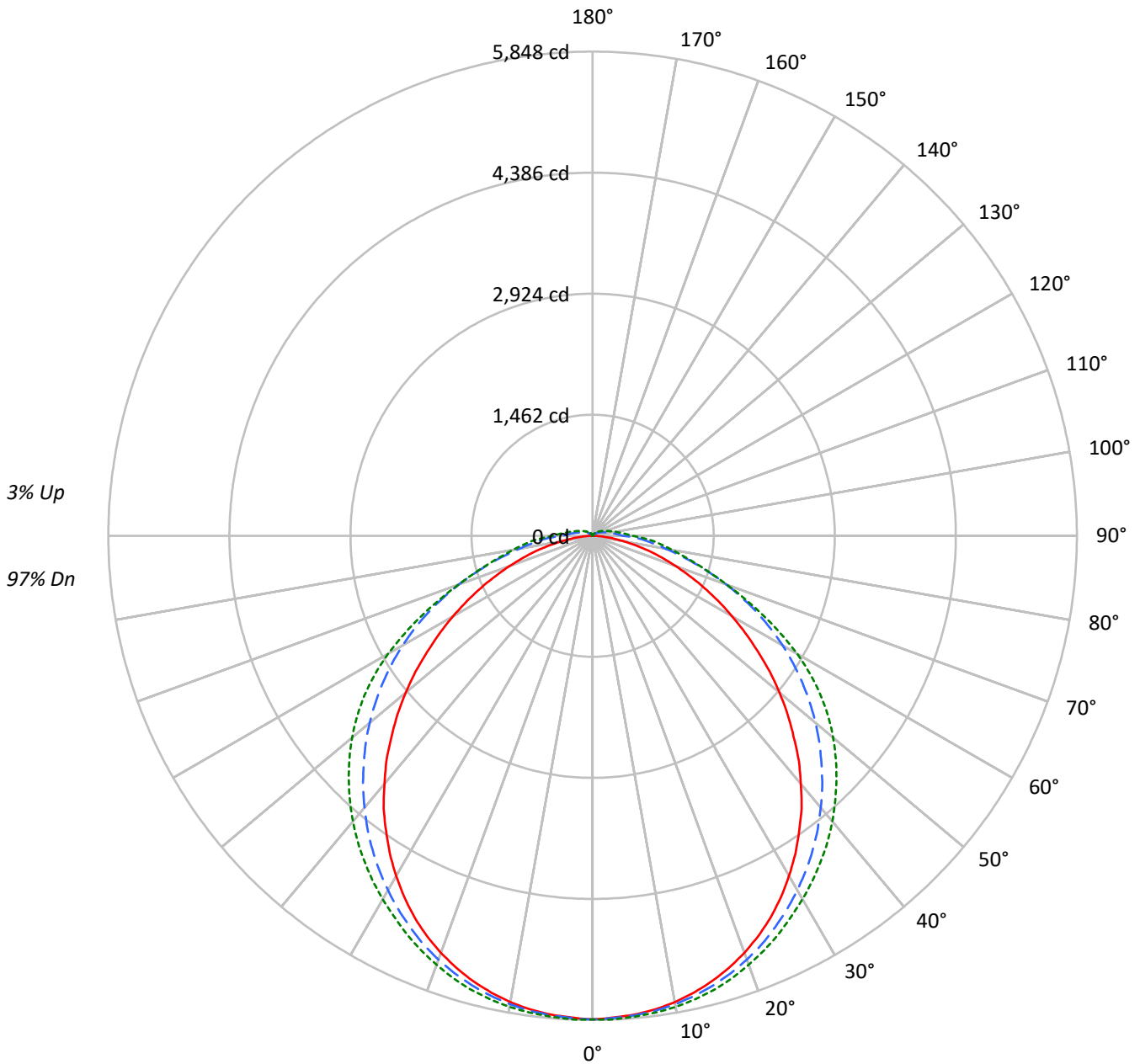
Lumens per Lamp: N/A
Luminaire Lumens: 17484.0 lumens
Efficiency: N/A
Efficacy: 166.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9978	9978	9978
5°	9914	9879	9907
10°	9845	9787	9849
15°	9735	9679	9775
20°	9589	9547	9669
25°	9394	9383	9561
30°	9124	9206	9453
35°	8797	9018	9358
40°	8404	8801	9264
45°	7942	8566	9145
50°	7435	8327	9002
55°	6813	8035	8766
60°	6176	7692	8305
65°	5480	7255	7555
70°	4726	6699	6743
75°	3962	6057	6184
80°	3003	5579	6093
85°	1900	5747	6720



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	553.6	3.2
10°-20°	1588.1	9.1
20°-30°	2401.7	13.7
30°-40°	2883.2	16.5
40°-50°	2977.9	17.0
50°-60°	2679.2	15.3
60°-70°	2018.2	11.5
70°-80°	1218.7	7.0
80°-90°	596.0	3.4
90°-100°	250.9	1.4
100°-110°	143.2	0.8
110°-120°	84.1	0.5
120°-130°	47.5	0.3
130°-140°	25.0	0.1
140°-150°	12.2	0.1
150°-160°	4.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4543.3	26.0
0°-40°	7426.6	42.5
0°-60°	13083.7	74.8
0°-90°	16916.6	96.8
90°-120°	478.2	2.7
90°-150°	562.9	3.2
90°-180°	567.0	3.2
0°-180°	17484.0	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°	0	150	363	458	476	9
95°	7	102	272	346	359	6
105°	10	59	157	206	214	10
115°	11	33	97	130	136	12
125°	11	16	59	84	89	10
135°	10	13	30	52	57	8
145°	14	13	14	26	30	9
155°	14	16	14	13	14	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829977

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

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°	0.0	150.1	363.2	457.5	476.1
92.5°	4.3	124.4	311.7	397.5	413.2
95°	7.1	101.5	271.7	346.0	358.9
97.5°	8.6	85.8	235.9	301.7	314.5
100°	8.6	74.3	204.5	264.5	275.9
102.5°	8.6	65.8	178.7	231.6	241.6
105°	10.0	58.6	157.3	205.9	214.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	11.4	38.6	108.7	145.8	151.6
115°	11.4	32.9	97.2	130.1	135.8
117.5°	12.9	28.6	85.8	117.2	121.5
120°	12.9	24.3	75.8	104.4	110.1
122.5°	12.9	20.0	67.2	94.4	98.7
125°	11.4	15.7	58.6	84.4	88.6
127.5°	10.0	12.9	50.0	75.8	80.1
130°	10.0	11.4	42.9	67.2	71.5
132.5°	10.0	12.9	35.7	58.6	64.3
135°	10.0	12.9	30.0	51.5	57.2
137.5°	10.0	12.9	24.3	44.3	50.0
140°	11.4	12.9	20.0	37.2	42.9
142.5°	12.9	12.9	15.7	31.5	35.7
145°	14.3	12.9	14.3	25.7	30.0
147.5°	14.3	14.3	14.3	20.0	24.3
150°	14.3	15.7	14.3	15.7	20.0
152.5°	14.3	15.7	14.3	12.9	15.7
155°	14.3	15.7	14.3	12.9	14.3
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.0	51.5	138.7	183.0	190.2
110°	10.0	45.8	123.0	163.0	170.1



(END OF REPORT)