

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: P830013

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
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
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

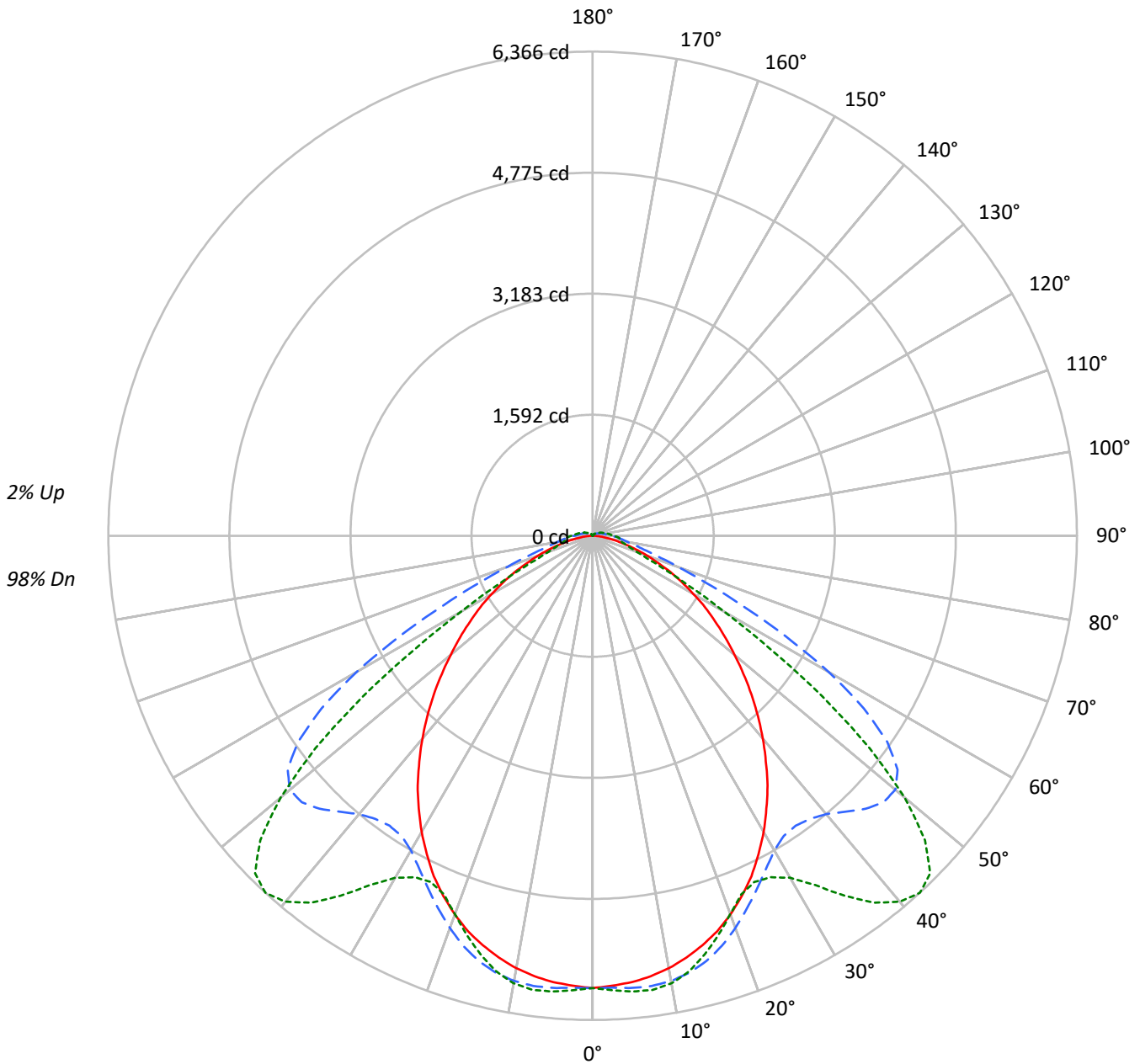
Lumens per Lamp: N/A
Luminaire Lumens: 17805.0 lumens
Efficiency: N/A
Efficacy: 169.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10157	10157	10157
5°	10062	10142	10222
10°	9936	10127	10185
15°	9742	9959	9810
20°	9477	9617	9281
25°	9121	9203	9046
30°	8649	8894	9679
35°	8109	9059	11255
40°	7484	9811	12921
45°	6830	11129	13779
50°	6147	12305	12705
55°	5506	12290	9601
60°	4853	10397	5790
65°	4164	7179	3445
70°	3383	4640	2428
75°	2574	3325	2170
80°	1848	2919	2303
85°	1254	3206	3202



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	568.3	3.2
10°-20°	1609.1	9.0
20°-30°	2354.7	13.2
30°-40°	3058.1	17.2
40°-50°	3734.3	21.0
50°-60°	3288.6	18.5
60°-70°	1713.7	9.6
70°-80°	734.9	4.1
80°-90°	352.9	2.0
90°-100°	165.8	0.9
100°-110°	103.1	0.6
110°-120°	60.9	0.3
120°-130°	33.1	0.2
130°-140°	16.6	0.1
140°-150°	8.0	0.0
150°-160°	2.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4532.1	25.5
0°-40°	7590.2	42.6
0°-60°	14613.1	82.1
0°-90°	17414.7	97.8
90°-120°	329.8	1.9
90°-150°	387.5	2.2
90°-180°	390.0	2.2
0°-180°	17805.0	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°	1	136	234	267	273	7
95°	3	80	186	218	224	2
105°	5	45	121	145	148	5
115°	8	26	74	91	94	8
125°	9	13	44	56	58	8
135°	8	8	20	35	36	6
145°	10	8	9	17	19	6
155°	10	10	8	8	8	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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

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°	1.3	136.0	233.5	266.9	273.3
92.5°	0.0	103.9	205.3	238.6	245.0
95°	2.6	79.5	186.0	218.1	224.5
97.5°	2.6	65.4	166.8	200.1	204.0
100°	3.8	56.5	148.8	180.9	184.7
102.5°	3.8	50.0	133.4	161.7	164.2
105°	5.1	44.9	120.6	145.0	147.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.7	30.8	84.7	102.6	105.2
115°	7.7	25.7	74.4	91.1	93.7
117.5°	9.0	23.1	65.4	80.8	82.1
120°	9.0	19.2	56.5	71.8	73.1
122.5°	9.0	15.4	50.0	64.1	65.4
125°	9.0	12.8	43.6	56.5	57.7
127.5°	7.7	9.0	37.2	50.0	51.3
130°	7.7	7.7	30.8	43.6	46.2
132.5°	7.7	7.7	25.7	38.5	41.1
135°	7.7	7.7	20.5	34.6	35.9
137.5°	7.7	7.7	16.7	29.5	32.1
140°	7.7	7.7	12.8	25.7	26.9
142.5°	9.0	7.7	11.5	21.8	23.1
145°	10.3	7.7	9.0	16.7	19.2
147.5°	10.3	9.0	9.0	14.1	15.4
150°	10.3	10.3	7.7	10.3	12.8
152.5°	10.3	10.3	7.7	7.7	10.3
155°	10.3	10.3	7.7	7.7	7.7
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°	6.4	39.8	107.8	129.6	132.1
110°	6.4	34.6	94.9	115.5	118.0



(END OF REPORT)