

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: P826965

Luminaire Tested: **OHB-18SE-A-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826965
REPORT IS A COMBINATION OF REPORTS P826029 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: OHB-18SE-A-UNV-L840-CD-UPL12
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

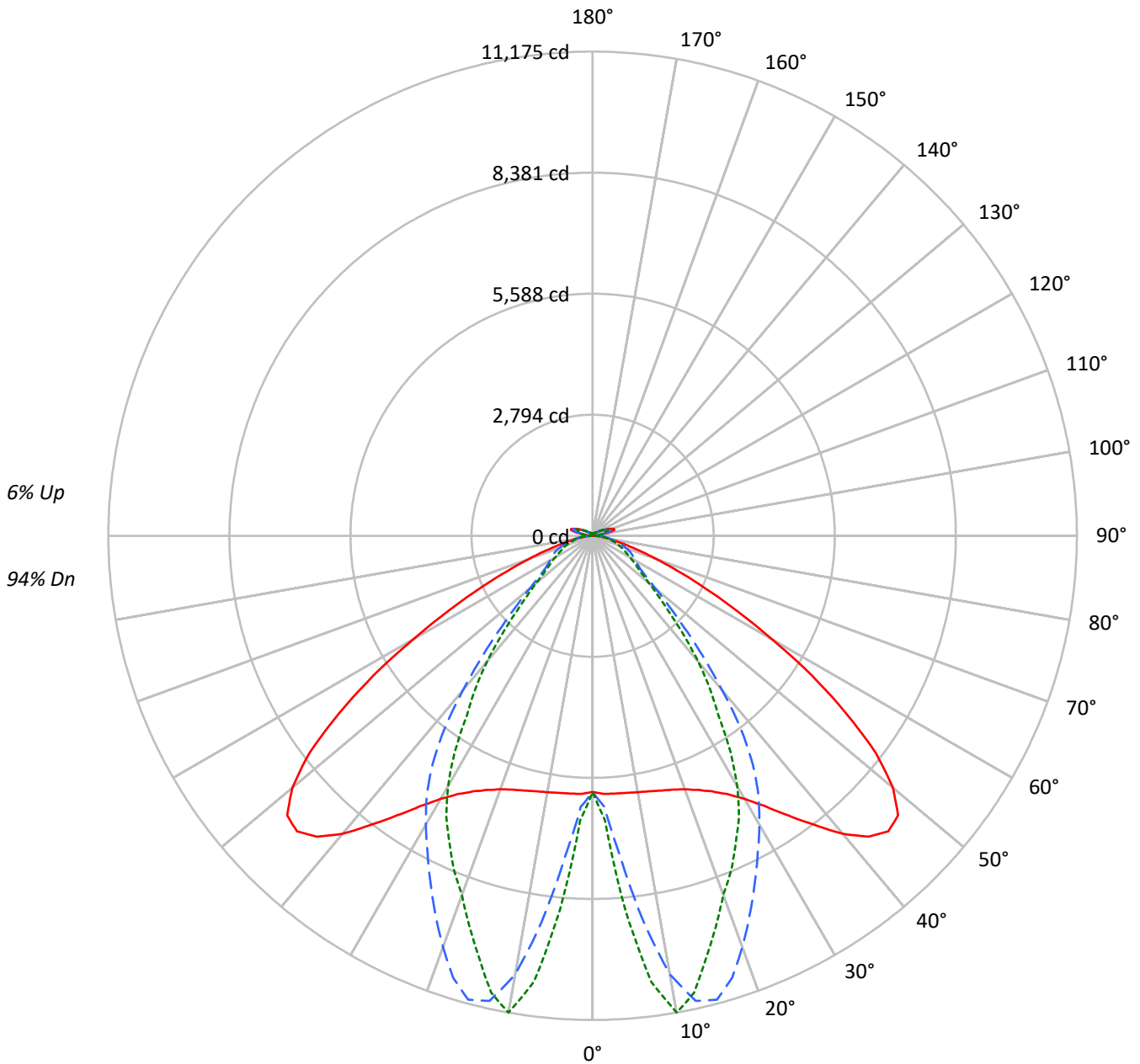
Lumens per Lamp: N/A
Luminaire Lumens: 20221.3 lumens
Efficiency: N/A
Efficacy: 174.3 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 116
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	50	30	10	50	30	10	0				
RCR																															
0	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94													
1	109	105	102	98	106	102	99	96	97	94	92	92	90	88	88	86	85	82													
2	101	94	88	83	98	92	86	82	87	83	79	83	80	76	79	76	74	72													
3	93	84	77	72	90	82	76	71	79	73	69	75	71	67	72	68	65	63													
4	86	76	68	63	84	74	67	62	71	65	60	68	63	59	66	61	58	55													
5	80	69	61	55	78	68	60	55	65	58	54	62	57	52	60	55	51	49													
6	75	63	55	49	72	62	54	49	59	53	48	57	51	47	55	50	46	44													
7	70	58	50	44	68	56	49	44	54	48	43	53	47	42	51	46	42	40													
8	65	53	45	40	63	52	45	40	50	44	39	49	43	38	47	42	38	36													
9	61	49	41	36	59	48	41	36	47	40	36	45	39	35	44	38	35	33													
10	57	45	38	33	56	45	38	33	43	37	33	42	36	32	41	36	32	30													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19754	19754	19754
5°	19855	24781	28851
10°	20031	34077	37337
15°	20509	37026	34141
20°	21357	34264	30393
25°	22914	30729	27687
30°	25551	27588	24512
35°	30038	24070	19440
40°	36118	18267	15389
45°	41430	12397	10887
50°	42002	8465	7996
55°	36356	6627	6477
60°	27157	6161	5766
65°	18615	6130	5387
70°	11902	5849	5120
75°	7157	5330	4761
80°	4211	4571	4682
85°	2026	3756	3917



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	772.0	3.8
10°-20°	2724.8	13.5
20°-30°	4015.1	19.9
30°-40°	4219.3	20.9
40°-50°	3228.5	16.0
50°-60°	1949.5	9.6
60°-70°	1189.6	5.9
70°-80°	649.3	3.2
80°-90°	231.1	1.1
90°-100°	119.0	0.6
100°-110°	413.9	2.0
110°-120°	355.5	1.8
120°-130°	170.4	0.8
130°-140°	85.2	0.4
140°-150°	49.6	0.2
150°-160°	28.9	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	7511.9	37.1
0°-40°	11731.1	58.0
0°-60°	16909.1	83.6
0°-90°	18979.1	93.9
90°-120°	888.4	4.4
90°-150°	1193.7	5.9
90°-180°	1242.0	6.1
0°-180°	20221.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5913	5913	5913	5913	5913	
5°	5973	6408	7475	8347	8669	571
15°	6089	9484	11084	10343	10100	1731
25°	6507	11007	8849	8012	7814	3041
35°	7882	8815	6447	5369	5055	5000
45°	9647	5030	2970	2613	2503	7289
55°	7134	1706	1352	1253	1249	6304
65°	2860	1080	994	851	808	2931
75°	762	672	616	508	488	876
85°	113	208	246	224	203	140
90°	3	18	24	31	35	8
95°	25	58	86	116	134	82
105°	517	511	436	309	284	489
115°	360	360	361	358	352	360
125°	176	183	187	185	186	164
135°	102	105	109	110	110	81
145°	75	77	78	79	80	48
155°	60	61	62	63	63	28
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°	5913.4	5913.4	5913.4	5913.4	5913.4
2.5°	5961.9	6022.7	6262.6	6511.6	6572.2
5°	5972.8	6407.9	7475.2	8346.8	8668.8
7.5°	5985.5	7032.0	8977.7	10044.7	10386.3
10°	6009.5	7821.1	10279.5	11045.6	11174.7
12.5°	6039.5	8657.2	10995.9	10968.0	10805.2
15°	6089.2	9484.1	11084.1	10343.2	10100.0
17.5°	6141.4	10183.7	10699.2	9663.1	9451.4
20°	6226.4	10703.0	10100.5	9058.6	8817.9
22.5°	6348.8	10988.5	9472.7	8511.9	8354.9
25°	6506.8	11007.1	8849.1	8011.5	7813.8
27.5°	6718.5	10751.7	8251.4	7521.4	7312.4
30°	7006.6	10262.8	7696.1	6930.3	6671.1
32.5°	7397.9	9559.1	7123.5	6216.7	5926.1
35°	7881.7	8814.6	6446.7	5368.8	5054.8
37.5°	8409.7	7988.0	5625.4	4617.9	4435.1
40°	8977.7	7136.2	4651.9	3915.2	3784.4
42.5°	9420.9	6210.1	3747.6	3253.7	3114.4
45°	9646.9	5029.7	2969.7	2613.1	2503.3
47.5°	9558.9	3904.3	2354.2	2076.3	2043.3
50°	9045.4	2882.9	1884.6	1710.4	1696.7
52.5°	8242.6	2148.8	1556.7	1448.9	1425.4
55°	7134.2	1705.6	1351.8	1252.9	1249.1
57.5°	5989.8	1448.9	1227.1	1150.5	1123.9
60°	4769.0	1292.0	1132.5	1046.0	992.0
62.5°	3738.2	1182.2	1063.0	945.6	895.1
65°	2860.1	1079.7	994.5	851.0	807.6
67.5°	2132.1	982.1	910.9	751.6	726.2
70°	1553.4	881.9	815.5	668.4	648.4
72.5°	1107.1	782.0	720.2	590.3	568.3
75°	761.5	671.5	615.9	508.2	487.6
77.5°	513.7	558.6	513.2	433.9	425.3
80°	343.1	443.0	415.1	367.7	362.4
82.5°	208.2	321.5	327.6	299.0	284.5
85°	113.3	208.2	245.5	223.7	202.9
87.5°	44.4	115.4	169.1	151.9	143.0
90°	3.0	18.0	24.0	31.0	35.0
92.5°	9.0	23.0	38.0	54.0	59.0
95°	25.0	58.0	86.0	116.0	134.0
97.5°	135.0	147.0	166.0	196.0	206.0
100°	276.0	297.0	247.0	258.0	263.0
102.5°	439.0	433.0	316.0	286.0	281.0
105°	517.0	511.0	436.0	309.0	284.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	418.0	421.0	418.0	402.0	385.0
115°	360.0	360.0	361.0	358.0	352.0
117.5°	302.0	306.0	309.0	306.0	304.0
120°	253.0	259.0	261.0	257.0	257.0
122.5°	213.0	218.0	221.0	218.0	219.0
125°	176.0	183.0	187.0	185.0	186.0
127.5°	147.0	153.0	160.0	159.0	159.0
130°	128.0	132.0	137.0	138.0	138.0
132.5°	114.0	117.0	121.0	122.0	123.0
135°	102.0	105.0	109.0	110.0	110.0
137.5°	94.0	96.0	99.0	100.0	101.0
140°	86.0	89.0	91.0	92.0	92.0
142.5°	80.0	82.0	84.0	85.0	86.0
145°	75.0	77.0	78.0	79.0	80.0
147.5°	70.0	72.0	74.0	74.0	75.0
150°	67.0	68.0	69.0	70.0	70.0
152.5°	63.0	64.0	65.0	66.0	66.0
155°	60.0	61.0	62.0	63.0	63.0
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°	520.0	522.0	481.0	373.0	309.0
110°	476.0	483.0	461.0	420.0	369.0



(END OF REPORT)