

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: P826978

Luminaire Tested: **OHB-18SE-NL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826978
REPORT IS A COMBINATION OF REPORTS P826141 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: OHB-18SE-NL-UNV-L840-CD-UPL18
Description: 18000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

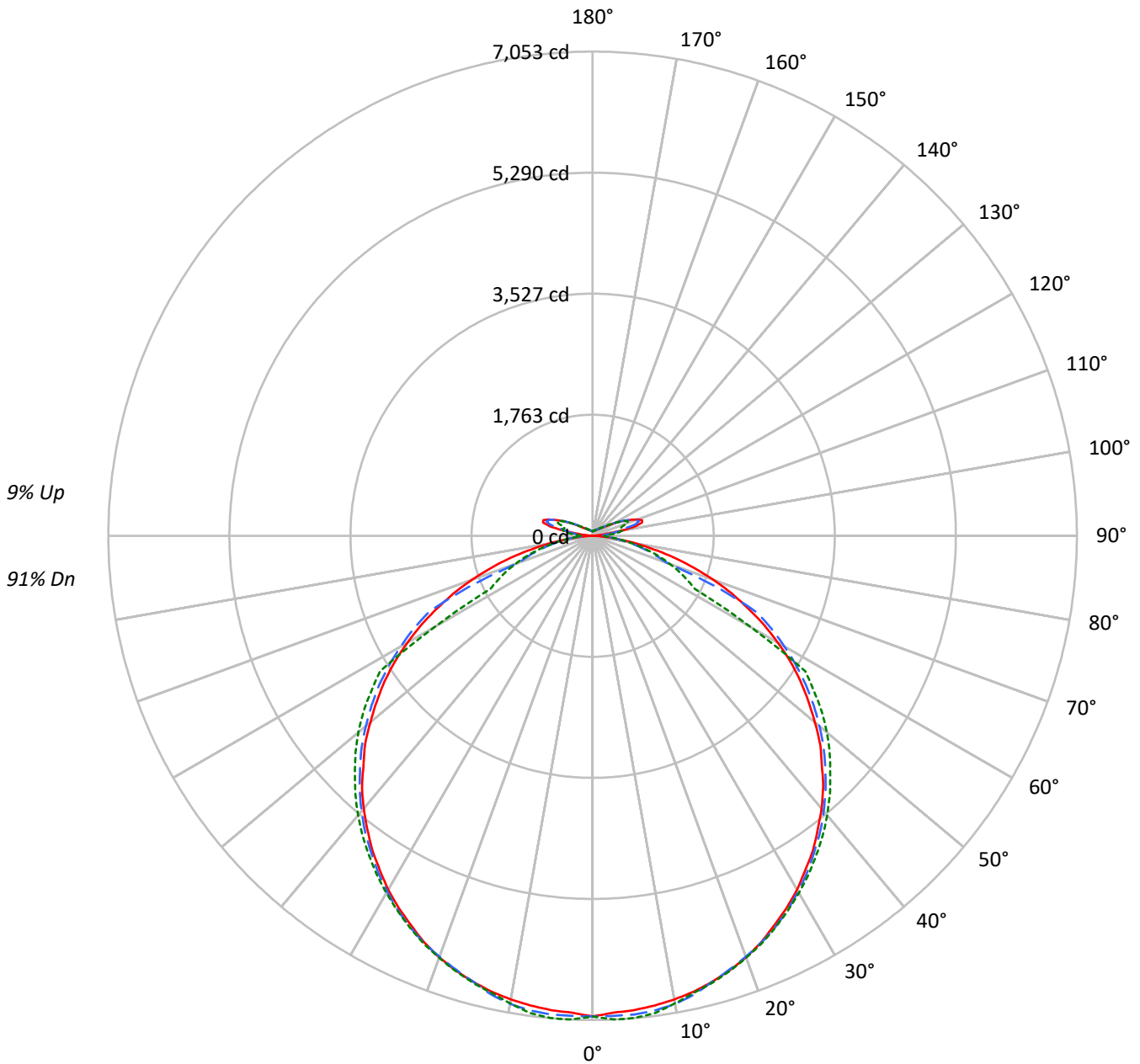
Lumens per Lamp: N/A
Luminaire Lumens: 21446.9 lumens
Efficiency: N/A
Efficacy: 178.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.1')
CIE Type: Direct

Input Watts (W): 119.9
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	100	100	100	94	94	94	91																			
1	107	103	99	95	104	100	96	93	94	91	88	88	86	84	83	82	80	77																			
2	98	90	83	78	94	87	81	76	82	77	73	78	74	70	74	70	67	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	59	65	61	57	55																			
4	82	70	62	55	79	68	60	54	65	58	53	61	56	51	58	53	49	47																			
5	75	63	54	47	72	61	53	47	58	51	45	55	49	44	52	47	43	41																			
6	69	56	48	41	67	55	47	41	52	45	40	50	43	39	47	42	38	35																			
7	64	51	42	36	62	50	42	36	47	40	35	45	39	34	43	38	33	31																			
8	60	46	38	32	58	45	37	32	43	36	31	41	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	50	38	31	26	37	30	25	35	29	25	34	28	24	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23388	23388	23388
5°	23138	23308	23540
10°	23022	23164	23245
15°	22893	22775	22989
20°	22733	22546	22822
25°	22443	22365	22660
30°	22195	22076	22501
35°	21895	21738	22346
40°	21534	21413	22206
45°	21030	20972	21985
50°	20491	20476	21800
55°	19836	19854	21314
60°	18855	18959	16354
65°	17448	17819	10795
70°	15637	9089	10191
75°	12980	8119	9317
80°	9116	6660	7876
85°	3658	5122	6272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	665.1	3.1
10°-20°	1904.5	8.9
20°-30°	2897.9	13.5
30°-40°	3523.4	16.4
40°-50°	3704.7	17.3
50°-60°	3382.8	15.8
60°-70°	2168.6	10.1
70°-80°	1024.4	4.8
80°-90°	288.5	1.3
90°-100°	246.5	1.1
100°-110°	615.2	2.9
110°-120°	516.6	2.4
120°-130°	245.3	1.1
130°-140°	122.6	0.6
140°-150°	71.2	0.3
150°-160°	41.5	0.2
160°-170°	21.5	0.1
170°-180°	6.6	0.0
0°-30°	5467.5	25.5
0°-40°	8990.9	41.9
0°-60°	16078.4	75.0
0°-90°	19560.0	91.2
90°-120°	1378.3	6.4
90°-150°	1817.3	8.5
90°-180°	1887.0	8.8
0°-180°	21446.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7001	7001	7001	7001	7001	
5°	6936	6963	6999	7037	7052	660
15°	6726	6776	6725	6735	6740	1899
25°	6259	6269	6291	6301	6296	2888
35°	5595	5562	5625	5694	5678	3496
45°	4719	4710	4790	4903	4894	3647
55°	3698	3670	3794	3920	3930	3298
65°	2491	2491	2636	1512	1517	2470
75°	1231	1254	814	858	861	1298
85°	161	204	254	275	260	238
90°	4	94	147	179	182	10
95°	42	118	210	276	300	122
105°	747	748	646	461	426	709
115°	519	528	530	521	512	522
125°	250	262	269	268	266	235
135°	148	151	156	158	159	117
145°	108	110	113	114	114	68
155°	86	88	89	90	90	40
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°	7001.3	7001.3	7001.3	7001.3	7001.3
2.5°	6952.2	6975.6	7001.3	7034.5	7052.8
5°	6936.2	6963.2	6998.8	7037.0	7051.7
7.5°	6901.8	6939.8	6974.3	7001.3	7009.9
10°	6858.8	6904.3	6923.9	6921.5	6915.3
12.5°	6801.0	6849.0	6842.9	6814.5	6819.5
15°	6726.1	6776.4	6724.9	6734.7	6739.6
17.5°	6637.7	6686.8	6626.6	6646.2	6647.5
20°	6534.5	6571.3	6524.6	6540.6	6540.6
22.5°	6410.4	6436.2	6416.5	6427.6	6430.1
25°	6259.3	6269.0	6291.2	6301.0	6296.1
27.5°	6114.4	6102.0	6145.1	6168.4	6156.0
30°	5953.4	5933.7	5984.1	6022.2	6007.5
32.5°	5769.1	5756.8	5814.6	5860.0	5851.4
35°	5594.7	5561.5	5625.4	5694.2	5678.2
37.5°	5388.2	5368.6	5441.0	5513.6	5505.0
40°	5186.8	5153.6	5235.9	5321.9	5313.3
42.5°	4970.6	4931.2	5020.9	5124.2	5114.3
45°	4718.7	4710.1	4789.9	4903.0	4894.4
47.5°	4495.2	4452.2	4563.9	4673.3	4683.2
50°	4224.8	4208.9	4310.9	4443.6	4453.3
52.5°	3960.8	3949.7	4056.5	4190.5	4207.6
55°	3697.8	3669.5	3793.6	3920.2	3930.1
57.5°	3416.6	3387.0	3513.6	3651.2	3672.0
60°	3115.5	3087.2	3226.0	3353.9	2667.1
62.5°	2814.5	2794.9	2939.9	2082.4	1678.2
65°	2491.4	2491.4	2636.3	1512.3	1517.2
67.5°	2189.3	2169.6	1965.7	1358.7	1358.7
70°	1864.9	1872.3	1132.6	1190.5	1191.7
72.5°	1539.3	1566.4	978.0	1024.5	1027.0
75°	1230.9	1254.4	814.5	857.5	861.2
77.5°	904.2	695.3	654.8	688.0	689.2
80°	635.1	438.6	501.3	533.1	529.5
82.5°	370.9	307.1	367.3	390.7	389.4
85°	160.9	203.9	254.3	275.2	260.4
87.5°	51.5	126.6	158.4	170.8	169.5
90°	4.0	93.8	147.0	178.8	181.5
92.5°	13.0	87.0	153.3	198.9	208.1
95°	41.6	117.6	210.2	276.4	300.4
97.5°	197.5	238.8	295.7	368.0	386.4
100°	404.5	442.8	392.1	432.4	439.7
102.5°	635.1	645.2	477.3	449.3	444.6
105°	747.1	747.5	645.6	460.6	425.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	609.4	615.9	607.5	587.9	554.2
115°	519.1	527.6	530.2	520.6	512.2
117.5°	437.0	440.0	442.0	440.0	441.0
120°	365.0	372.0	376.0	373.0	371.0
122.5°	305.0	314.0	319.0	316.0	314.0
125°	250.0	262.0	269.0	268.0	266.0
127.5°	212.0	221.0	230.0	229.0	227.0
130°	184.0	191.0	197.0	198.0	199.0
132.5°	165.0	168.0	174.0	175.0	177.0
135°	148.0	151.0	156.0	158.0	159.0
137.5°	135.0	138.0	142.0	144.0	145.0
140°	124.0	127.0	130.0	132.0	133.0
142.5°	115.0	118.0	121.0	122.0	123.0
145°	108.0	110.0	113.0	114.0	114.0
147.5°	101.0	103.0	105.0	107.0	107.0
150°	95.0	97.0	99.0	100.0	101.0
152.5°	91.0	92.0	94.0	95.0	95.0
155°	86.0	88.0	89.0	90.0	90.0
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°	754.1	760.2	707.2	547.1	452.6
110°	692.4	704.1	677.7	612.9	535.2



(END OF REPORT)