

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: P827161

Luminaire Tested: **OHBL-24SE-W-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827161
REPORT IS A COMBINATION OF REPORTS P826250 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-W-UNV-L840-CD-UPL24
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

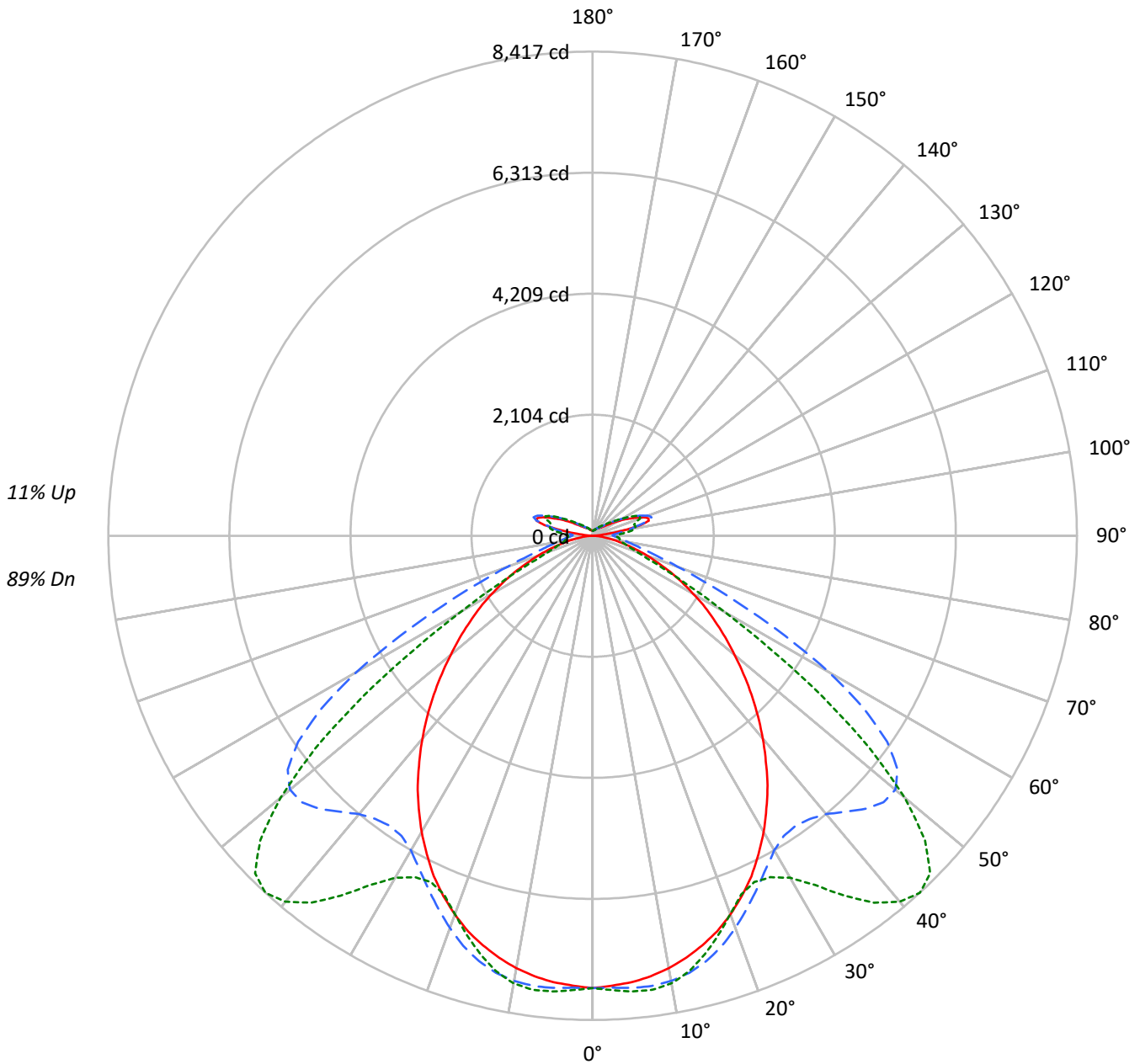
Lumens per Lamp: N/A
Luminaire Lumens: 25961.3 lumens
Efficiency: N/A
Efficacy: 167.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
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	116	116	116	116	112	112	112	112	105	105	105	98	98	98	92	92	92	89																			
1	107	102	98	94	103	99	95	92	92	90	87	87	84	82	81	80	78	75																			
2	97	89	83	77	94	87	81	76	81	76	72	76	72	69	72	69	66	63																			
3	89	79	71	64	85	76	69	63	72	66	61	67	62	58	63	59	56	53																			
4	81	70	61	55	78	67	60	54	64	57	52	60	54	50	57	52	48	45																			
5	74	62	53	47	72	60	52	46	57	50	44	54	48	43	51	46	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	46	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	42	36	32	30																			
8	59	46	37	31	57	44	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	51	38	30	25	50	37	30	25	36	29	24	34	28	24	32	27	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13429	13429	13429
5°	13239	13410	13582
10°	13009	13389	13598
15°	12692	13168	13162
20°	12283	12715	12517
25°	11759	12167	12266
30°	11086	11760	13200
35°	10329	11977	15446
40°	9466	12972	17856
45°	8571	14714	19194
50°	7644	16270	17862
55°	6771	16249	13648
60°	5887	13746	8344
65°	4962	9491	5054
70°	3934	6135	3649
75°	2886	4396	3384
80°	1948	3859	3817
85°	1163	4239	6035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	751.3	2.9
10°-20°	2127.5	8.2
20°-30°	3113.3	12.0
30°-40°	4043.3	15.6
40°-50°	4937.3	19.0
50°-60°	4348.1	16.7
60°-70°	2265.8	8.7
70°-80°	971.7	3.7
80°-90°	472.8	1.8
90°-100°	451.1	1.7
100°-110°	941.2	3.6
110°-120°	771.0	3.0
120°-130°	375.0	1.4
130°-140°	187.7	0.7
140°-150°	106.6	0.4
150°-160°	59.7	0.2
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	5992.1	23.1
0°-40°	10035.4	38.7
0°-60°	19320.8	74.4
0°-90°	23031.1	88.7
90°-120°	2163.3	8.3
90°-150°	2832.7	10.9
90°-180°	2930.0	11.3
0°-180°	25961.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7862	7862	7862	7862	7862	
5°	7789	7849	7891	7961	7952	739
15°	7370	7577	7650	7593	7532	2075
25°	6531	6880	6763	6636	6643	2997
35°	5301	5861	6154	7177	7637	3304
45°	3903	4911	6712	8127	8296	3010
55°	2599	4302	6251	5481	4872	2332
65°	1491	2980	2862	1591	1369	1475
75°	600	1394	919	629	597	655
85°	127	497	468	458	463	142
90°	7	214	356	415	430	13
95°	56	216	418	516	555	167
105°	1010	1051	1004	793	747	959
115°	702	733	797	817	815	708
125°	350	373	421	437	435	327
135°	210	214	238	259	262	166
145°	159	159	164	175	179	100
155°	130	132	130	131	131	59
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7862.3	7862.3	7862.3	7862.3	7862.3
2.5°	7828.3	7862.3	7864.0	7911.5	7906.4
5°	7789.3	7848.7	7891.1	7960.6	7952.2
7.5°	7724.9	7818.2	7892.8	7969.1	7962.3
10°	7633.3	7760.5	7858.9	7921.6	7901.3
12.5°	7514.5	7682.5	7779.1	7792.7	7753.7
15°	7370.3	7577.3	7650.2	7592.6	7531.5
17.5°	7207.5	7450.1	7475.5	7350.0	7273.7
20°	7003.9	7280.4	7255.0	7082.0	6997.2
22.5°	6778.3	7093.8	7012.4	6830.9	6749.5
25°	6530.7	6880.1	6763.1	6635.9	6642.6
27.5°	6240.6	6637.5	6523.9	6581.6	6690.1
30°	5945.5	6383.1	6313.6	6649.4	6863.2
32.5°	5621.5	6121.9	6184.6	6847.9	7197.3
35°	5300.9	5860.7	6154.1	7177.0	7636.7
37.5°	4946.4	5596.0	6203.3	7556.9	8038.7
40°	4602.0	5338.2	6315.3	7897.9	8305.0
42.5°	4250.9	5107.5	6503.5	8099.7	8416.9
45°	3903.1	4910.7	6712.2	8126.9	8296.5
47.5°	3555.4	4744.5	6856.4	7911.5	7833.4
50°	3219.5	4596.9	6866.5	7394.1	7075.2
52.5°	2905.7	4461.2	6680.0	6569.7	6074.4
55°	2598.7	4301.8	6250.8	5480.7	4871.7
57.5°	2318.8	4081.3	5589.2	4310.3	3645.3
60°	2022.0	3782.7	4734.3	3153.4	2629.2
62.5°	1748.9	3411.2	3775.9	2195.0	1889.7
65°	1491.0	2980.4	2861.6	1591.1	1368.9
67.5°	1217.9	2534.2	2111.9	1160.3	1017.8
70°	1004.2	2120.4	1572.5	902.4	819.3
72.5°	785.4	1726.8	1175.5	732.8	687.0
75°	600.5	1394.3	919.4	629.3	597.1
77.5°	442.7	1102.6	739.6	556.4	525.8
80°	310.4	868.5	619.1	497.0	485.1
82.5°	208.6	671.7	527.5	473.3	475.0
85°	127.2	497.0	468.2	458.0	463.1
87.5°	61.1	352.8	402.0	417.3	422.4
90°	6.7	213.8	355.7	414.8	430.3
92.5°	17.0	182.4	343.4	417.5	439.0
95°	56.4	216.2	418.0	516.4	554.8
97.5°	272.4	377.5	533.5	643.6	681.7
100°	557.1	660.6	669.8	739.2	753.3
102.5°	858.1	914.2	794.4	767.7	763.1
105°	1009.8	1051.4	1003.5	792.7	747.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	818.2	860.7	916.0	916.7	888.1
115°	702.2	732.9	797.4	817.4	814.8
117.5°	603.9	623.5	683.5	702.9	705.6
120°	501.9	526.4	584.6	600.0	595.7
122.5°	422.9	443.4	495.2	511.8	507.5
125°	349.9	373.0	420.7	436.6	435.3
127.5°	296.2	310.9	358.2	376.2	376.9
130°	259.2	267.2	307.7	325.7	330.1
132.5°	231.2	238.2	268.9	289.9	292.3
135°	210.2	214.2	238.1	258.8	262.5
137.5°	193.2	196.2	214.1	234.0	237.4
140°	178.2	182.2	194.0	212.9	215.6
142.5°	166.9	169.2	178.3	193.8	195.5
145°	158.6	159.2	163.9	175.1	179.4
147.5°	149.6	151.9	153.9	162.7	164.4
150°	142.6	144.6	144.2	148.6	153.0
152.5°	135.6	137.6	137.2	138.2	141.6
155°	129.6	131.6	130.2	131.2	131.2
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1015.5	1063.6	1075.5	900.3	781.7
110°	937.5	983.8	1018.5	968.7	874.1



(END OF REPORT)