

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: P827006

Luminaire Tested: **OHB-24SE-MCL-UNV-L840-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827006
REPORT IS A COMBINATION OF REPORTS P826294 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-24SE-MCL-UNV-L840-CD-UPL36
Description: 24000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 3600 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

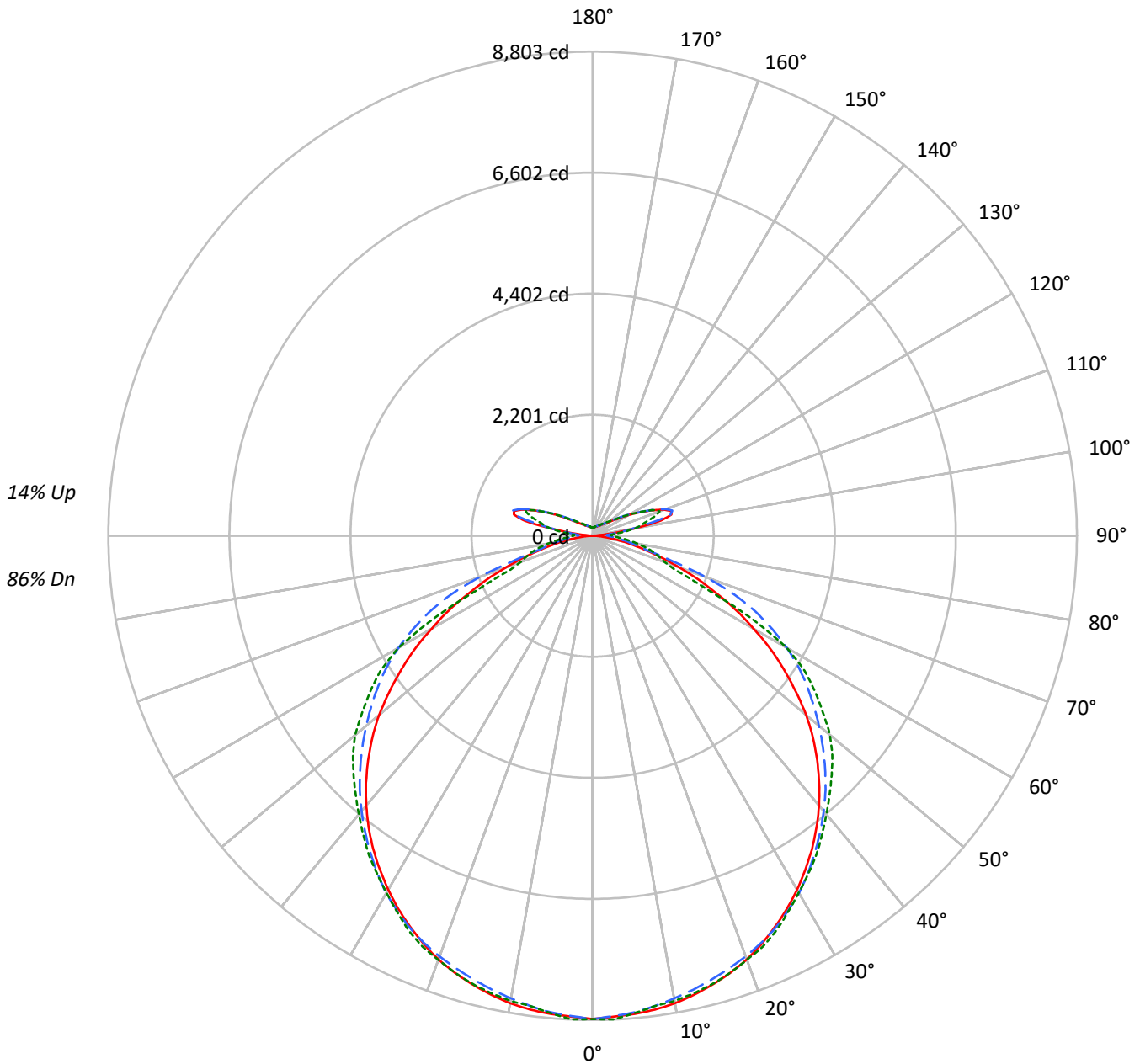
Lumens per Lamp: N/A
Luminaire Lumens: 28413.1 lumens
Efficiency: N/A
Efficacy: 162.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 175.4
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				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	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	86			86
1	106	101	97	94	102	98	94	91	91	88	86	85	83	81	79	78	76	73			73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61			61
3	88	78	70	64	85	75	68	63	71	65	60	66	61	57	62	58	54	52			52
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44			44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38			38
6	68	55	47	41	66	54	46	40	51	44	38	48	42	37	45	40	36	33			33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29			29
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26			26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	29	26	24			24
10	51	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	21			21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29347	29347	29347
5°	29014	28833	28998
10°	28767	28311	28692
15°	28443	27900	28516
20°	28116	27609	28279
25°	27628	27314	28046
30°	27104	26898	27534
35°	26501	26290	27260
40°	25757	25659	26882
45°	24784	24939	26728
50°	23523	24125	26544
55°	21640	23307	25584
60°	19249	22162	23688
65°	16221	20169	15041
70°	12750	15542	10933
75°	9217	9058	11138
80°	6034	7317	10700
85°	3020	6355	10152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	828.4	2.9
10°-20°	2375.4	8.4
20°-30°	3627.9	12.8
30°-40°	4401.9	15.5
40°-50°	4613.6	16.2
50°-60°	4180.6	14.7
60°-70°	2803.0	9.9
70°-80°	1258.6	4.4
80°-90°	464.4	1.6
90°-100°	412.6	1.5
100°-110°	1310.9	4.6
110°-120°	1063.8	3.7
120°-130°	506.0	1.8
130°-140°	259.4	0.9
140°-150°	152.8	0.5
150°-160°	90.9	0.3
160°-170°	48.0	0.2
170°-180°	14.7	0.1
0°-30°	6831.7	24.0
0°-40°	11233.6	39.5
0°-60°	20027.8	70.5
0°-90°	24553.9	86.4
90°-120°	2787.4	9.8
90°-150°	3705.6	13.0
90°-180°	3859.0	13.6
0°-180°	28413.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8785	8785	8785	8785	8785	
5°	8728	8759	8698	8724	8713	830
15°	8445	8412	8352	8426	8436	2384
25°	7845	7811	7866	7938	7915	3616
35°	6954	6970	7041	7116	7088	4346
45°	5771	5865	5974	6126	6146	4446
55°	4246	4451	4755	4945	4934	3791
65°	2492	2882	3272	2762	2255	2483
75°	981	1423	1047	1071	1141	1072
85°	169	324	415	502	526	206
90°	9	157	278	341	355	16
95°	63	191	312	389	410	232
105°	1482	1503	1458	1119	1022	1410
115°	1040	1031	1061	1078	1070	1051
125°	516	535	560	555	546	486
135°	311	320	329	338	341	246
145°	229	236	241	245	247	147
155°	189	193	196	198	197	88
165°	165	167	168	169	170	47
175°	152	152	152	150	151	15
180°	149	149	149	149	149	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8785.2	8785.2	8785.2	8785.2	8785.2
2.5°	8749.7	8786.5	8740.8	8790.3	8803.0
5°	8728.1	8758.6	8697.6	8724.3	8712.8
7.5°	8688.7	8698.8	8626.4	8648.0	8625.2
10°	8630.3	8625.2	8540.1	8582.0	8587.1
12.5°	8543.9	8528.6	8452.4	8515.9	8517.2
15°	8444.8	8411.8	8352.1	8425.7	8435.9
17.5°	8330.5	8287.3	8247.9	8343.2	8327.9
20°	8197.1	8146.3	8138.7	8242.8	8204.7
22.5°	8032.0	7992.6	8010.4	8109.4	8085.3
25°	7845.2	7810.9	7865.5	7938.0	7915.1
27.5°	7648.3	7628.0	7690.3	7746.1	7701.7
30°	7432.4	7421.0	7503.5	7549.3	7493.4
32.5°	7197.4	7201.2	7280.0	7342.2	7290.1
35°	6953.5	6970.0	7041.1	7116.1	7088.1
37.5°	6685.5	6722.3	6793.4	6878.5	6849.3
40°	6402.2	6455.5	6534.3	6637.2	6610.5
42.5°	6096.1	6163.4	6265.0	6379.3	6376.8
45°	5770.9	5864.9	5974.1	6126.5	6145.6
47.5°	5433.0	5538.4	5676.9	5880.1	5909.3
50°	5065.9	5198.0	5370.7	5614.6	5632.4
52.5°	4656.8	4837.2	5065.9	5299.6	5278.0
55°	4246.5	4451.0	4754.6	4945.2	4933.8
57.5°	3837.5	4067.4	4435.8	4571.7	4570.5
60°	3380.2	3671.1	4073.8	4176.7	4075.0
62.5°	2957.2	3269.7	3687.6	3612.7	3264.6
65°	2492.3	2882.3	3272.2	2761.6	2254.7
67.5°	2079.4	2485.9	2779.4	1891.4	1619.6
70°	1664.1	2112.5	2167.1	1403.7	1384.6
72.5°	1295.7	1773.3	1495.1	1201.7	1262.7
75°	980.7	1422.7	1046.7	1070.8	1140.7
77.5°	715.2	1092.4	814.2	938.7	995.9
80°	491.6	773.6	664.4	788.8	828.2
82.5°	308.7	510.7	532.2	635.1	675.8
85°	168.9	323.9	415.4	501.8	525.9
87.5°	69.9	195.6	317.6	387.4	407.8
90°	9.3	157.0	277.7	341.3	355.0
92.5°	26.3	142.6	252.3	313.2	328.1
95°	63.3	191.3	312.4	389.1	410.2
97.5°	376.5	455.4	472.2	565.6	594.7
100°	806.8	868.5	741.9	768.5	792.3
102.5°	1263.1	1310.6	1094.4	938.2	912.0
105°	1482.1	1503.2	1458.4	1118.6	1022.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1218.9	1230.8	1245.2	1252.6	1223.2
115°	1040.2	1031.2	1060.8	1078.0	1070.5
117.5°	891.2	883.7	910.8	914.4	905.9
120°	751.2	752.4	778.9	771.3	764.6
122.5°	624.2	638.2	659.1	655.5	643.8
125°	515.9	535.2	559.9	554.7	545.9
127.5°	445.2	451.2	475.3	474.1	475.4
130°	384.2	393.4	410.8	417.9	415.9
132.5°	343.4	352.7	366.5	374.6	377.6
135°	311.4	319.7	329.0	338.3	340.6
137.5°	286.7	292.7	298.7	310.1	312.3
140°	264.7	270.7	275.4	284.5	285.8
142.5°	245.4	252.7	256.4	263.2	264.5
145°	229.4	235.7	240.7	245.0	247.2
147.5°	218.7	222.7	227.7	228.7	231.0
150°	207.7	210.7	214.7	216.7	217.7
152.5°	197.7	200.7	204.7	205.7	206.7
155°	188.7	193.0	196.0	198.0	196.7
157.5°	180.7	185.0	188.0	189.0	189.0
160°	174.7	178.0	181.0	181.0	182.0
162.5°	170.0	172.0	174.0	175.0	176.0
165°	165.0	167.0	168.0	169.0	170.0
167.5°	161.0	163.2	163.0	164.0	164.0
170°	157.0	158.0	159.0	157.7	158.7
172.5°	154.0	155.0	156.0	154.7	154.7
175°	152.0	152.0	151.7	150.4	151.4
177.5°	151.2	151.0	149.7	148.4	148.2
180°	148.7	148.7	148.7	148.7	148.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1497.4	1518.1	1520.2	1358.9	<i>1187.5</i>
110°	1383.6	1409.3	1418.1	1372.5	<i>1296.1</i>



(END OF REPORT)