

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: P826989

Luminaire Tested: **OHB-24HE-MFL-UNV-L840-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826989
REPORT IS A COMBINATION OF REPORTS P826037 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-24HE-MFL-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHB HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENSAND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

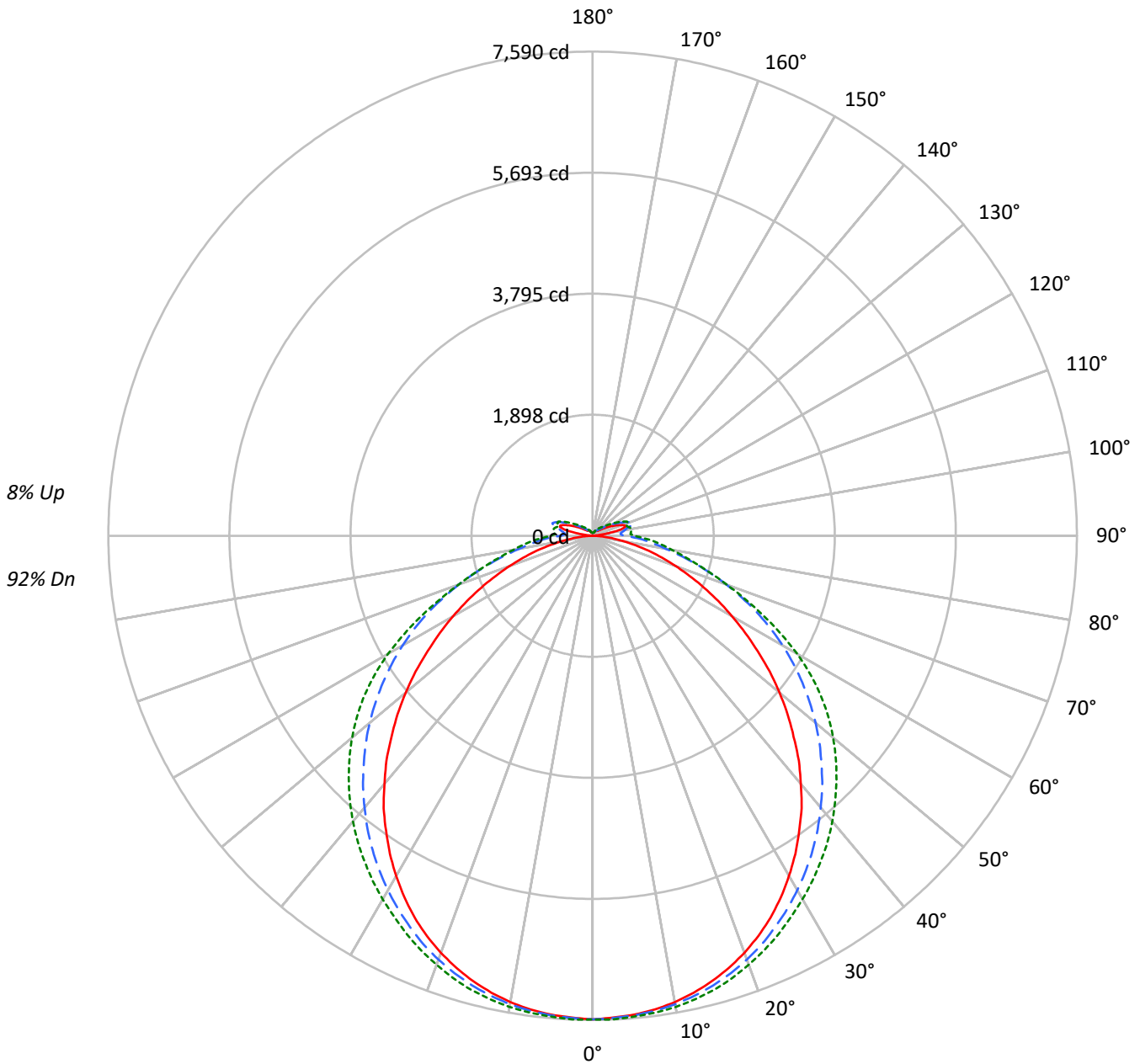
Lumens per Lamp: N/A
Luminaire Lumens: 23937.3 lumens
Efficiency: N/A
Efficacy: 173.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138.4
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	117	117	117	117	113	113	113	113	107	107	107	100	100	100	94	94	94	92																			
1	106	101	97	93	103	98	94	91	92	89	86	87	84	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	68	65	63																			
3	88	77	69	62	85	75	68	61	71	65	59	67	62	57	63	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	45	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	48	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	34	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	26	36	30	26	24																			
10	51	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23452	23452	23452
5°	23204	23170	23314
10°	22944	22907	23205
15°	22590	22604	23058
20°	22152	22248	22836
25°	21600	21816	22611
30°	20874	21352	22387
35°	20016	20862	22196
40°	19008	20301	22009
45°	17837	19693	21768
50°	16566	19073	21474
55°	15033	18325	20964
60°	13464	17449	19925
65°	11761	16346	18201
70°	9926	14958	16335
75°	8059	13349	15100
80°	5787	12049	15073
85°	3264	11957	17048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	718.4	3.0
10°-20°	2061.1	8.6
20°-30°	3117.1	13.0
30°-40°	3742.1	15.6
40°-50°	3865.0	16.1
50°-60°	3477.3	14.5
60°-70°	2619.4	10.9
70°-80°	1581.7	6.6
80°-90°	776.7	3.2
90°-100°	444.6	1.9
100°-110°	599.8	2.5
110°-120°	464.6	1.9
120°-130°	232.1	1.0
130°-140°	117.7	0.5
140°-150°	65.4	0.3
150°-160°	34.8	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	5896.6	24.6
0°-40°	9638.7	40.3
0°-60°	16980.9	70.9
0°-90°	21958.7	91.7
90°-120°	1509.0	6.3
90°-150°	1924.2	8.0
90°-180°	1979.0	8.3
0°-180°	23937.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7582	7582	7582	7582	7582	
5°	7534	7554	7545	7575	7565	716
15°	7230	7265	7298	7359	7367	2038
25°	6602	6675	6769	6875	6892	3037
35°	5645	5777	6014	6196	6233	3529
45°	4455	4680	5071	5348	5406	3440
55°	3156	3483	4012	4314	4366	2830
65°	1926	2320	2839	2980	2947	1914
75°	907	1303	1644	1687	1670	968
85°	189	499	824	937	954	219
90°	3	213	495	625	653	14
95°	34	190	439	565	600	90
105°	530	587	640	576	562	502
115°	375	403	487	527	528	375
125°	191	203	263	294	301	177
135°	115	122	148	177	184	91
145°	94	94	97	112	119	59
155°	79	81	81	80	82	34
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°	7582.1	7582.1	7582.1	7582.1	7582.1
2.5°	7559.9	7578.4	7567.3	7591.4	7589.5
5°	7533.9	7554.3	7545.0	7574.7	7565.4
7.5°	7489.3	7511.6	7509.7	7543.2	7539.4
10°	7424.4	7448.5	7455.9	7500.5	7500.5
12.5°	7335.3	7366.9	7385.4	7439.2	7441.1
15°	7229.5	7264.8	7298.2	7359.4	7366.9
17.5°	7101.5	7146.0	7192.4	7263.0	7272.2
20°	6956.8	7006.9	7070.0	7144.2	7155.3
22.5°	6789.8	6849.1	6930.8	7018.0	7031.0
25°	6602.3	6674.7	6769.4	6875.1	6891.8
27.5°	6388.9	6472.5	6600.5	6719.2	6734.1
30°	6157.0	6255.3	6414.9	6556.0	6580.1
32.5°	5912.0	6025.2	6221.9	6379.7	6413.1
35°	5644.8	5776.6	6014.1	6196.0	6233.1
37.5°	5381.3	5526.1	5795.1	6003.0	6047.5
40°	5073.3	5253.3	5561.3	5791.4	5845.2
42.5°	4783.8	4978.7	5327.5	5578.0	5630.0
45°	4455.4	4679.9	5071.4	5347.9	5405.5
47.5°	4147.3	4390.4	4824.6	5110.4	5169.8
50°	3822.6	4089.8	4561.1	4859.9	4921.1
52.5°	3497.9	3785.5	4288.4	4598.3	4655.8
55°	3156.4	3483.0	4011.9	4314.3	4366.3
57.5°	2839.1	3184.3	3728.0	4015.6	4047.1
60°	2525.5	2883.7	3438.5	3690.9	3702.0
62.5°	2219.3	2596.0	3141.6	3342.0	3327.2
65°	1926.1	2319.5	2839.1	2980.1	2946.7
67.5°	1644.1	2050.5	2529.2	2620.2	2575.6
70°	1376.9	1788.8	2228.6	2275.0	2234.2
72.5°	1141.2	1540.2	1924.3	1963.3	1933.6
75°	907.4	1302.7	1644.1	1686.8	1670.1
77.5°	688.4	1072.6	1386.2	1441.8	1445.5
80°	495.5	862.9	1161.6	1248.8	1260.0
82.5°	326.6	669.9	974.2	1085.5	1102.2
85°	189.3	499.2	823.9	937.1	953.8
87.5°	81.6	360.0	662.5	764.5	784.9
90°	3.0	212.8	495.3	624.8	652.9
92.5°	14.6	184.4	442.5	569.9	595.3
95°	34.3	189.7	438.6	565.1	599.8
97.5°	146.1	258.3	472.2	587.5	614.2
100°	287.1	393.5	512.4	601.3	621.1
102.5°	450.1	518.4	548.0	586.6	594.6
105°	530.0	587.1	640.1	576.2	562.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	432.8	471.1	559.0	591.3	581.7
115°	374.8	402.7	487.2	526.9	528.3
117.5°	318.7	343.1	420.3	458.2	461.7
120°	269.7	290.5	359.3	392.5	399.9
122.5°	229.7	244.0	308.2	340.5	347.0
125°	190.8	203.4	263.1	294.5	301.0
127.5°	160.0	169.7	224.9	257.3	262.9
130°	141.0	146.8	192.7	225.2	230.8
132.5°	127.0	133.7	167.4	198.1	206.5
135°	115.0	121.7	148.0	176.8	184.2
137.5°	107.0	112.7	130.5	157.5	165.9
140°	100.8	105.7	117.0	140.2	147.7
142.5°	96.7	98.7	104.4	125.8	132.4
145°	93.6	93.7	96.6	112.4	119.0
147.5°	88.6	90.6	92.6	100.0	106.5
150°	85.6	88.4	87.6	90.4	96.0
152.5°	81.6	84.4	83.6	82.7	86.4
155°	78.6	81.4	80.6	79.7	81.6
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°	533.0	588.8	661.0	610.5	555.8
110°	489.0	542.4	620.6	631.5	589.8



(END OF REPORT)