

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: P827133

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827133
REPORT IS A COMBINATION OF REPORTS P826073 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: OHBL-24HE-MFL-UNV-L840-CD-UPL12
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1200 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

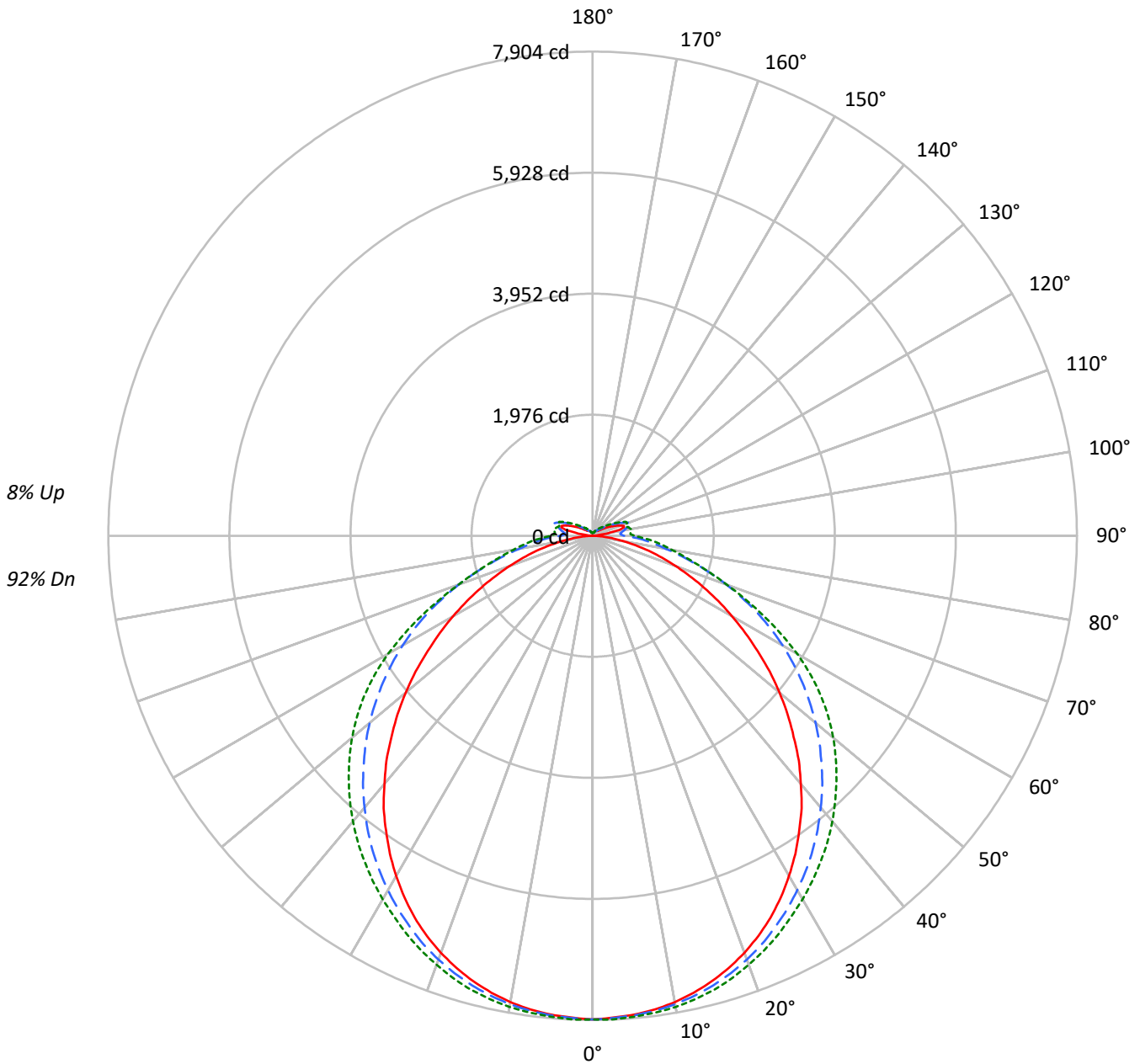
Lumens per Lamp: N/A
Luminaire Lumens: 24876.3 lumens
Efficiency: N/A
Efficacy: 175.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 141.4
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	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	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	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	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	27	36	30	26	24																			
10	52	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°	12487	12487	12487
5°	12355	12369	12459
10°	12216	12260	12446
15°	12028	12129	12414
20°	11795	11970	12342
25°	11501	11771	12271
30°	11114	11554	12203
35°	10658	11325	12156
40°	10121	11059	12118
45°	9497	10771	12058
50°	8821	10479	11979
55°	8004	10122	11794
60°	7169	9702	11329
65°	6262	9164	10491
70°	5285	8479	9596
75°	4291	7688	9126
80°	3081	7116	9560
85°	1737	7397	11985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	748.2	3.0
10°-20°	2146.4	8.6
20°-30°	3246.1	13.0
30°-40°	3896.9	15.7
40°-50°	4024.9	16.2
50°-60°	3621.2	14.6
60°-70°	2727.8	11.0
70°-80°	1647.1	6.6
80°-90°	808.7	3.3
90°-100°	458.0	1.8
100°-110°	607.5	2.4
110°-120°	469.2	1.9
120°-130°	234.7	0.9
130°-140°	119.1	0.5
140°-150°	66.0	0.3
150°-160°	35.0	0.1
160°-170°	15.0	0.1
170°-180°	4.6	0.0
0°-30°	6140.6	24.7
0°-40°	10037.6	40.3
0°-60°	17683.6	71.1
0°-90°	22867.2	91.9
90°-120°	1534.7	6.2
90°-150°	1954.5	7.9
90°-180°	2009.0	8.1
0°-180°	24876.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7896	7896	7896	7896	7896	
5°	7846	7867	7857	7888	7878	745
15°	7529	7565	7600	7664	7672	2123
25°	6876	6951	7050	7160	7177	3163
35°	5878	6016	6263	6452	6491	3675
45°	4640	4874	5281	5569	5629	3582
55°	3287	3627	4178	4493	4547	2947
65°	2006	2416	2957	3104	3069	1993
75°	945	1357	1712	1757	1739	1008
85°	197	520	858	976	993	228
90°	3	221	515	649	678	14
95°	35	195	453	584	619	90
105°	530	590	649	587	574	503
115°	376	404	492	534	536	376
125°	192	204	266	299	306	178
135°	116	122	150	180	187	92
145°	94	94	97	114	121	59
155°	79	82	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°	7895.9	7895.9	7895.9	7895.9	7895.9
2.5°	7872.7	7892.0	7880.4	7905.5	7903.6
5°	7845.6	7866.9	7857.2	7888.1	7878.5
7.5°	7799.2	7822.4	7820.5	7855.3	7851.4
10°	7731.6	7756.7	7764.5	7810.8	7810.8
12.5°	7638.9	7671.7	7691.0	7747.1	7749.0
15°	7528.7	7565.4	7600.2	7664.0	7671.7
17.5°	7395.4	7441.8	7490.1	7563.5	7573.2
20°	7244.6	7296.8	7362.5	7439.8	7451.4
22.5°	7070.7	7132.6	7217.6	7308.4	7321.9
25°	6875.6	6950.9	7049.5	7159.6	7177.0
27.5°	6653.3	6740.3	6873.6	6997.3	7012.8
30°	6411.8	6514.2	6680.4	6827.2	6852.4
32.5°	6156.7	6274.6	6479.4	6643.7	6678.4
35°	5878.4	6015.6	6263.0	6452.4	6491.0
37.5°	5604.0	5754.7	6034.9	6251.4	6297.8
40°	5283.2	5470.7	5791.5	6031.1	6087.1
42.5°	4981.8	5184.7	5548.0	5808.9	5863.0
45°	4639.7	4873.6	5281.3	5569.2	5629.1
47.5°	4319.0	4572.1	5024.3	5321.9	5383.7
50°	3980.8	4259.1	4749.9	5061.0	5124.8
52.5°	3642.6	3942.1	4465.8	4788.5	4848.4
55°	3287.0	3627.2	4177.9	4492.9	4547.0
57.5°	2956.6	3316.0	3882.2	4181.8	4214.6
60°	2630.0	3003.0	3580.8	3843.6	3855.2
62.5°	2311.2	2703.5	3271.6	3480.3	3464.8
65°	2005.9	2415.5	2956.6	3103.5	3068.7
67.5°	1712.1	2135.3	2633.9	2728.6	2682.2
70°	1433.9	1862.9	2320.8	2369.1	2326.6
72.5°	1188.4	1603.9	2003.9	2044.5	2013.6
75°	945.0	1356.6	1712.1	1756.6	1739.2
77.5°	716.9	1116.9	1443.5	1501.5	1505.4
80°	516.0	898.6	1209.7	1300.5	1312.1
82.5°	340.1	697.6	1014.5	1130.5	1147.9
85°	197.1	519.8	858.0	975.9	993.3
87.5°	85.0	374.9	689.9	796.2	817.4
90°	3.0	220.9	514.8	649.4	678.5
92.5°	14.8	191.1	459.3	591.2	617.5
95°	34.7	195.2	453.2	583.6	619.0
97.5°	146.6	262.9	484.8	603.7	631.1
100°	287.6	397.5	523.3	615.5	636.0
102.5°	450.6	521.9	557.6	599.1	607.6
105°	530.5	590.2	648.6	587.3	573.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	433.5	473.2	564.9	599.1	589.8
115°	375.5	404.4	492.4	533.9	535.6
117.5°	319.4	344.6	424.9	464.5	468.3
120°	270.4	291.9	363.4	398.1	405.8
122.5°	230.4	245.1	311.8	345.5	352.3
125°	191.5	204.3	266.2	299.0	305.8
127.5°	160.5	170.4	227.6	261.4	267.2
130°	141.5	147.5	195.0	228.8	234.6
132.5°	127.5	134.4	169.3	201.2	210.0
135°	115.5	122.4	149.6	179.6	187.3
137.5°	107.5	113.4	131.9	159.9	168.6
140°	101.5	106.4	118.1	142.2	150.0
142.5°	97.4	99.4	105.3	127.5	134.3
145°	94.3	94.4	97.3	113.8	120.6
147.5°	89.3	91.3	93.3	101.1	107.9
150°	86.3	89.3	88.3	91.3	97.1
152.5°	82.3	85.3	84.3	83.4	87.3
155°	79.3	82.3	81.3	80.4	82.3
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°	533.5	591.6	668.4	620.3	566.0
110°	489.5	544.8	627.2	640.3	599.0



(END OF REPORT)