

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: P828191

Luminaire Tested: **OHB-24HE-MFL-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828191
REPORT IS A COMBINATION OF REPORTS P826289 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-24HE-MFL-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

Summary

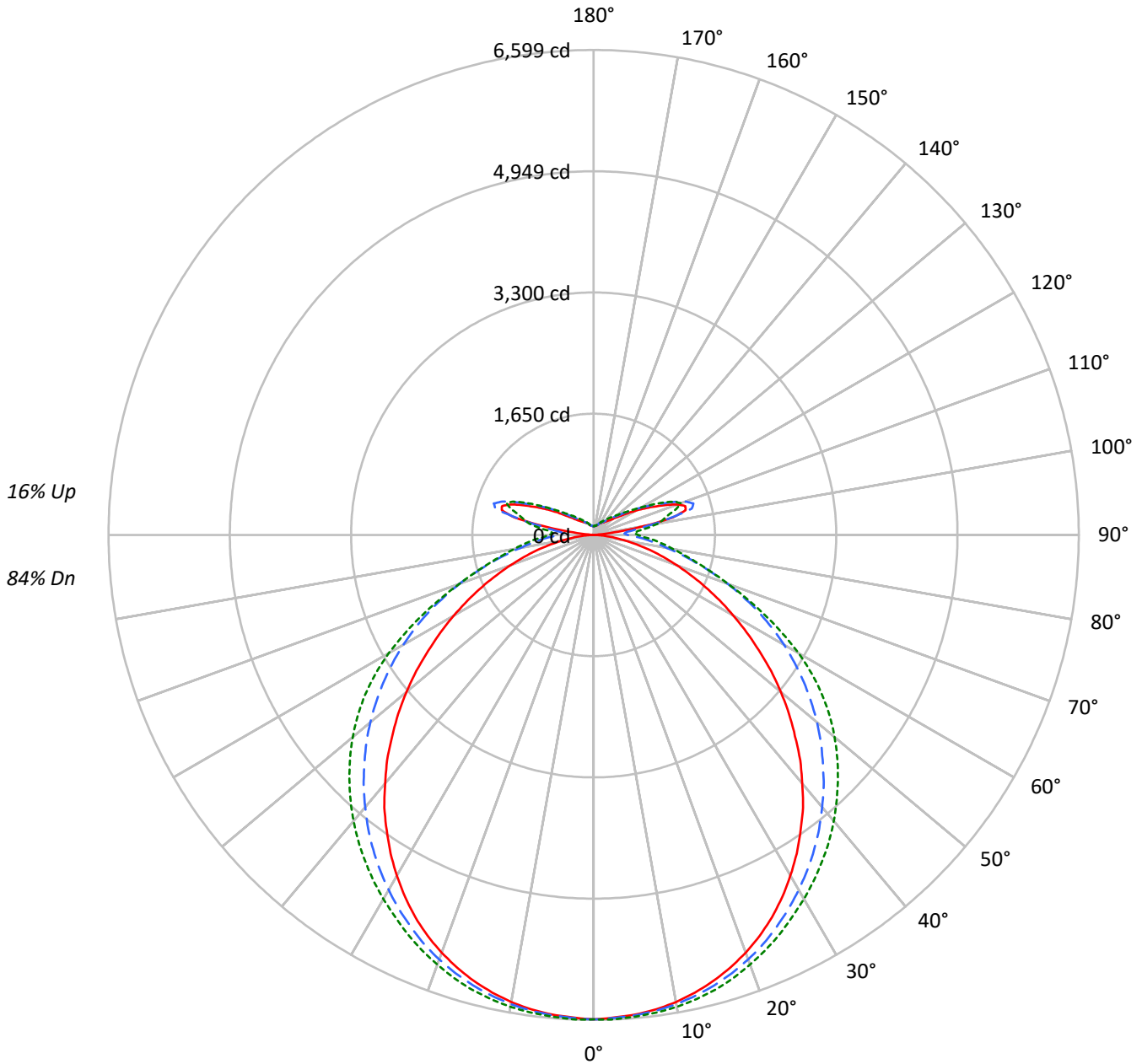
Lumens per Lamp: N/A
Luminaire Lumens: 22843.8 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.8' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 158.8
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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84	84	84	84
1	105	100	95	91	100	96	92	88	89	85	82	82	79	77	76	74	72	69	69	69	69
2	95	87	80	74	91	83	77	72	77	72	68	72	67	64	66	63	60	57	57	57	57
3	86	76	68	61	83	73	66	60	68	62	57	63	58	54	58	54	51	48	48	48	48
4	79	67	59	52	76	65	57	51	60	54	48	56	50	46	52	47	44	41	41	41	41
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35	35	35	35
6	67	54	45	39	64	52	44	38	49	42	36	45	39	35	42	37	33	31	31	31	31
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	39	34	30	27	27	27	27
8	58	44	36	30	55	43	35	30	40	34	29	38	32	28	36	30	26	24	24	24	24
9	54	41	33	27	52	39	32	27	37	30	26	35	29	25	33	28	24	22	22	22	22
10	50	38	30	25	48	36	29	24	34	28	23	32	27	22	30	25	22	20	20	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20390	20390	20390
5°	20175	20145	20270
10°	19948	19916	20175
15°	19640	19653	20047
20°	19260	19343	19854
25°	18780	18968	19659
30°	18149	18565	19464
35°	17403	18138	19298
40°	16526	17650	19136
45°	15508	17122	18926
50°	14403	16583	18670
55°	13070	15933	18227
60°	11706	15171	17324
65°	10225	14212	15825
70°	8630	13005	14203
75°	7006	11606	13129
80°	5031	10476	13105
85°	2838	10395	14823



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	624.6	2.7
10°-20°	1792.0	7.8
20°-30°	2710.1	11.9
30°-40°	3253.5	14.2
40°-50°	3360.4	14.7
50°-60°	3023.3	13.2
60°-70°	2277.4	10.0
70°-80°	1375.2	6.0
80°-90°	679.2	3.0
90°-100°	522.3	2.3
100°-110°	1245.0	5.5
110°-120°	991.5	4.3
120°-130°	478.0	2.1
130°-140°	243.1	1.1
140°-150°	139.4	0.6
150°-160°	78.8	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.1
0°-30°	5126.8	22.4
0°-40°	8380.3	36.7
0°-60°	14764.0	64.6
0°-90°	19095.8	83.6
90°-120°	2758.8	12.1
90°-150°	3619.3	15.8
90°-180°	3748.0	16.4
0°-180°	22843.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6592	6592	6592	6592	6592	
5°	6550	6568	6560	6586	6578	622
15°	6286	6316	6345	6399	6405	1772
25°	5740	5803	5886	5978	5992	2640
35°	4908	5022	5229	5387	5419	3068
45°	3874	4069	4409	4650	4700	2991
55°	2744	3028	3488	3751	3796	2461
65°	1675	2017	2468	2591	2562	1664
75°	789	1133	1430	1467	1452	842
85°	165	434	716	815	829	190
90°	7	212	464	579	601	15
95°	62	222	450	573	602	207
105°	1296	1348	1382	1129	1051	1232
115°	908	920	1000	1043	1041	918
125°	454	474	533	554	550	426
135°	272	281	308	335	342	215
145°	206	208	214	230	236	131
155°	169	173	174	174	176	77
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6592.2	6592.2	6592.2	6592.2	6592.2
2.5°	6572.9	6589.0	6579.3	6600.3	6598.6
5°	6550.3	6568.0	6560.0	6585.8	6577.7
7.5°	6511.5	6530.9	6529.3	6558.4	6555.1
10°	6455.1	6476.1	6482.5	6521.3	6521.3
12.5°	6377.6	6405.1	6421.2	6468.0	6469.6
15°	6285.6	6316.3	6345.4	6398.6	6405.1
17.5°	6174.4	6213.0	6253.4	6314.8	6322.8
20°	6048.6	6092.1	6147.0	6211.5	6221.1
22.5°	5903.4	5954.9	6025.9	6101.8	6113.1
25°	5740.3	5803.3	5885.6	5977.5	5992.0
27.5°	5554.8	5627.5	5738.8	5842.0	5854.9
30°	5353.2	5438.6	5577.4	5700.1	5721.0
32.5°	5140.2	5238.6	5409.6	5546.8	5575.8
35°	4907.8	5022.4	5228.9	5387.1	5419.3
37.5°	4678.7	4804.6	5038.5	5219.3	5258.0
40°	4411.0	4567.5	4835.2	5035.3	5082.1
42.5°	4159.2	4328.7	4632.0	4849.8	4895.0
45°	3873.7	4068.9	4409.3	4649.7	4699.8
47.5°	3605.8	3817.2	4194.7	4443.2	4494.9
50°	3323.5	3555.9	3965.6	4225.4	4278.6
52.5°	3041.2	3291.3	3728.5	3998.0	4048.0
55°	2744.3	3028.3	3488.1	3751.0	3796.3
57.5°	2468.4	2768.6	3241.3	3491.3	3518.7
60°	2195.8	2507.2	2989.6	3209.0	3218.7
62.5°	1929.6	2257.1	2731.4	2905.7	2892.8
65°	1674.6	2016.7	2468.4	2591.0	2562.0
67.5°	1429.5	1782.8	2199.0	2278.1	2239.3
70°	1197.1	1555.3	1937.6	1978.0	1942.5
72.5°	992.2	1339.1	1673.1	1707.0	1681.2
75°	788.9	1132.6	1429.5	1466.6	1452.1
77.5°	598.5	932.6	1205.2	1253.6	1256.8
80°	430.8	750.2	1009.9	1085.8	1095.5
82.5°	284.0	582.4	847.0	943.8	958.3
85°	164.6	434.0	716.3	814.8	829.3
87.5°	70.9	313.0	576.0	664.7	682.4
90°	7.0	212.0	464.5	578.9	600.7
92.5°	26.6	192.5	418.6	532.0	555.0
95°	62.0	222.3	450.0	573.1	601.5
97.5°	334.8	446.3	569.7	702.9	738.3
100°	707.8	800.3	786.3	858.4	888.7
102.5°	1103.4	1182.8	1078.1	986.5	971.7
105°	1295.5	1347.7	1382.5	1128.7	1051.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1064.9	1098.2	1167.7	1206.2	1184.8
115°	908.4	920.5	1000.0	1043.2	1041.0
117.5°	780.5	789.5	861.0	893.1	888.3
120°	658.8	671.6	738.4	758.6	758.1
122.5°	548.4	568.6	627.9	649.9	643.4
125°	453.7	474.2	533.1	554.3	550.4
127.5°	389.5	397.9	452.0	476.7	481.6
130°	336.5	345.0	390.1	419.2	422.4
132.5°	300.0	310.1	344.6	373.1	382.1
135°	272.1	281.4	307.8	334.6	341.9
137.5°	249.5	258.0	276.0	303.0	310.3
140°	232.0	238.8	252.1	274.9	281.4
142.5°	218.0	223.2	230.8	251.1	256.0
145°	205.7	208.4	214.4	229.9	235.6
147.5°	195.3	198.8	203.1	210.4	216.1
150°	185.7	189.9	191.8	195.1	200.8
152.5°	177.0	181.2	183.1	182.3	186.4
155°	169.2	173.4	174.4	174.5	176.1
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1307.6	1357.0	1424.2	1322.9	1179.7
110°	1207.7	1259.3	1326.4	1322.0	1261.4



(END OF REPORT)