

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: P828416

Luminaire Tested: **OHBL-48HE-W-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828416
REPORT IS A COMBINATION OF REPORTS P826256 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-48HE-W-UNV-L940-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

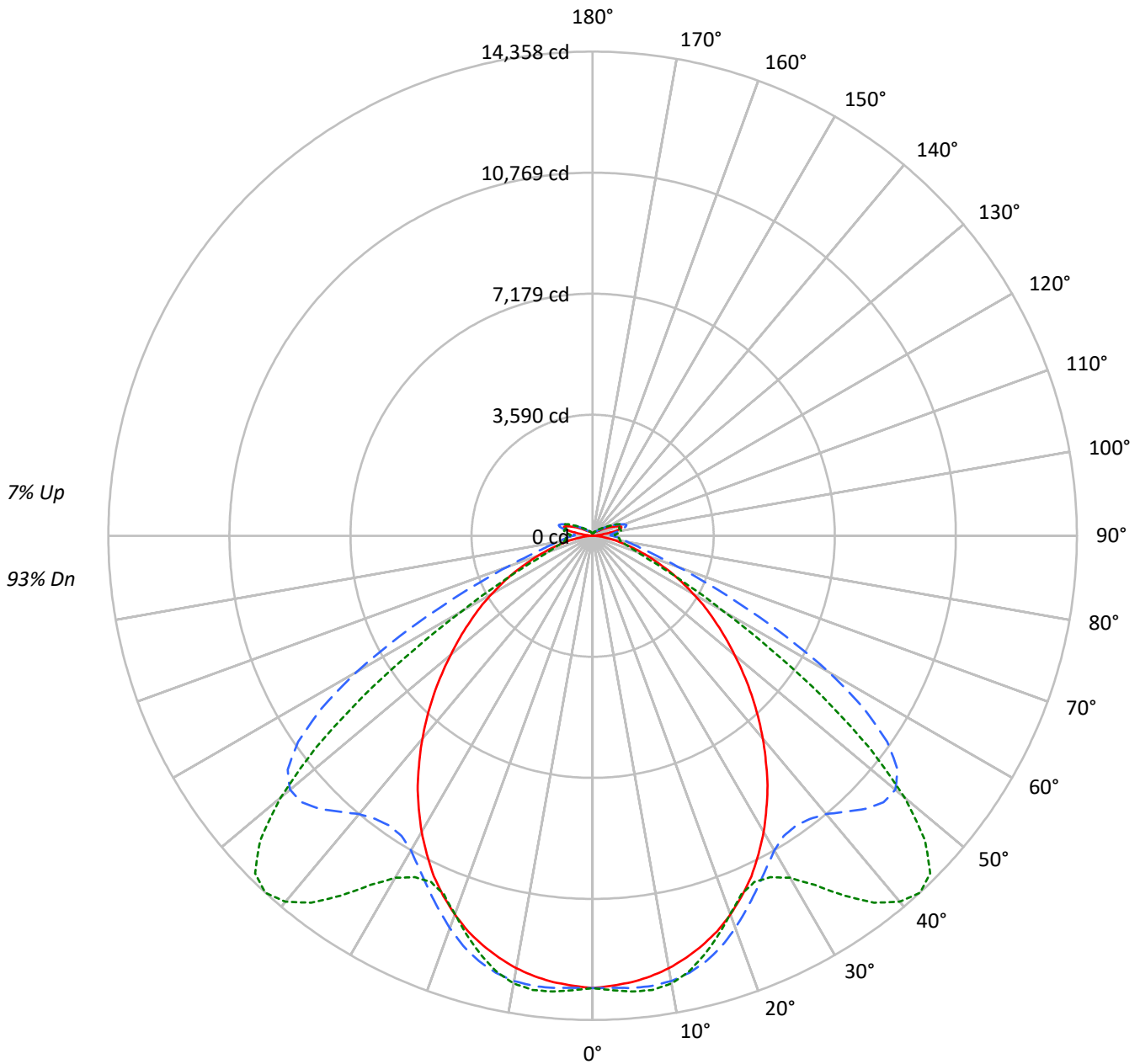
Lumens per Lamp: N/A
Luminaire Lumens: 42263.1 lumens
Efficiency: N/A
Efficacy: 149.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 283.4
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	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	89	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	71	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21211	21211	21211
5°	20925	21191	21453
10°	20575	21168	21478
15°	20087	20828	20790
20°	19453	20121	19772
25°	18635	19264	19375
30°	17581	18628	20849
35°	16395	18984	24398
40°	15039	20572	28205
45°	13630	23352	30317
50°	12170	25843	28213
55°	10795	25835	21557
60°	9402	21882	13180
65°	7941	15131	7984
70°	6315	9801	5764
75°	4652	7043	5345
80°	3162	6213	6030
85°	1913	6885	9532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1281.7	3.0
10°-20°	3629.4	8.6
20°-30°	5311.0	12.6
30°-40°	6897.4	16.3
40°-50°	8422.6	19.9
50°-60°	7417.4	17.6
60°-70°	3865.3	9.1
70°-80°	1657.6	3.9
80°-90°	801.4	1.9
90°-100°	575.6	1.4
100°-110°	932.3	2.2
110°-120°	737.8	1.7
120°-130°	362.7	0.9
130°-140°	181.6	0.4
140°-150°	101.6	0.2
150°-160°	55.0	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	10222.0	24.2
0°-40°	17119.5	40.5
0°-60°	32959.5	78.0
0°-90°	39283.8	93.0
90°-120°	2245.6	5.3
90°-150°	2891.5	6.8
90°-180°	2979.0	7.0
0°-180°	42263.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13412	13412	13412	13412	13412	
5°	13288	13389	13462	13580	13566	###
15°	12573	12926	13051	12952	12848	3540
25°	11141	11737	11537	11320	11332	5113
35°	9043	9998	10498	12243	13027	5636
45°	6658	8377	11450	13864	14153	5134
55°	4433	7338	10663	9350	8311	3979
65°	2544	5084	4882	2714	2335	2517
75°	1024	2379	1568	1074	1019	1117
85°	217	848	799	781	790	242
90°	7	336	568	656	676	18
95°	52	276	569	690	731	148
105°	884	964	1006	850	813	840
115°	619	666	776	812	812	625
125°	314	338	414	442	442	293
135°	191	195	230	263	268	151
145°	149	147	152	171	177	94
155°	124	126	122	123	123	54
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13412.3	13412.3	13412.3	13412.3	13412.3
2.5°	13354.4	13412.3	13415.2	13496.2	13487.5
5°	13287.9	13389.2	13461.5	13580.1	13565.7
7.5°	13177.9	13337.0	13464.4	13594.6	13583.0
10°	13021.7	13238.7	13406.5	13513.6	13478.8
12.5°	12819.1	13105.6	13270.5	13293.6	13227.1
15°	12573.1	12926.1	13050.6	12952.2	12848.0
17.5°	12295.3	12709.1	12752.5	12538.4	12408.2
20°	11948.1	12419.8	12376.4	12081.2	11936.5
22.5°	11563.3	12101.4	11962.5	11652.9	11514.1
25°	11140.7	11736.8	11537.2	11320.2	11331.7
27.5°	10645.9	11323.0	11129.1	11227.6	11412.8
30°	10142.4	10889.0	10770.3	11343.3	11707.9
32.5°	9589.7	10443.3	10550.4	11681.9	12277.9
35°	9042.8	9997.7	10498.4	12243.3	13027.4
37.5°	8438.0	9546.3	10582.3	12891.4	13713.2
40°	7850.6	9106.5	10773.2	13473.1	14167.5
42.5°	7251.6	8713.0	11094.5	13817.4	14358.5
45°	6658.4	8377.3	11450.4	13863.7	14153.1
47.5°	6065.2	8093.7	11696.4	13496.2	13363.1
50°	5492.3	7842.0	11713.7	12613.6	12069.6
52.5°	4956.9	7610.4	11395.4	11207.3	10362.3
55°	4433.1	7338.5	10663.3	9349.6	8310.7
57.5°	3955.7	6962.3	9534.8	7352.9	6218.5
60°	3449.3	6452.9	8076.4	5379.4	4485.2
62.5°	2983.4	5819.2	6441.4	3744.4	3223.6
65°	2543.6	5084.3	4881.7	2714.3	2335.2
67.5°	2077.7	4323.2	3602.6	1979.3	1736.2
70°	1713.1	3617.1	2682.5	1539.4	1397.6
72.5°	1339.8	2945.8	2005.4	1250.1	1171.9
75°	1024.4	2378.6	1568.4	1073.6	1018.6
77.5°	755.3	1880.9	1261.7	949.2	897.0
80°	529.6	1481.5	1056.2	847.9	827.6
82.5°	356.0	1145.9	900.0	807.4	810.2
85°	217.0	847.9	798.7	781.3	790.0
87.5°	104.2	601.9	685.8	711.8	720.5
90°	7.2	336.3	567.5	655.8	676.3
92.5°	14.8	273.5	525.6	626.9	652.7
95°	51.9	275.9	569.1	690.2	730.7
97.5°	239.7	400.6	648.3	780.9	818.3
100°	488.6	636.8	746.9	842.8	859.3
102.5°	750.3	850.1	838.2	846.3	845.1
105°	883.6	963.8	1005.9	849.5	812.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	719.9	782.4	890.1	910.6	888.5
115°	619.0	665.6	775.5	811.5	812.1
117.5°	535.0	567.7	666.6	700.5	704.2
120°	446.3	479.0	570.7	601.1	598.8
122.5°	377.6	402.5	485.8	515.9	513.6
125°	314.1	338.5	414.0	442.0	442.4
127.5°	266.0	280.2	352.6	382.4	384.4
130°	233.9	240.8	301.6	331.4	338.0
132.5°	209.5	215.6	262.2	294.6	299.5
135°	191.3	194.8	229.8	263.4	268.0
137.5°	176.5	179.1	204.6	236.1	241.9
140°	163.5	166.9	182.8	213.5	217.3
142.5°	155.0	155.6	167.8	192.7	195.5
145°	149.2	146.9	152.4	170.7	177.3
147.5°	141.4	142.0	143.7	157.0	159.9
150°	135.3	137.0	133.9	140.5	147.2
152.5°	129.2	130.9	127.8	128.7	134.4
155°	124.0	125.7	121.7	122.6	122.6
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	890.0	968.7	1054.3	926.0	825.8
110°	822.1	893.7	990.6	969.9	890.5



(END OF REPORT)