

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: P830521

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

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
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
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

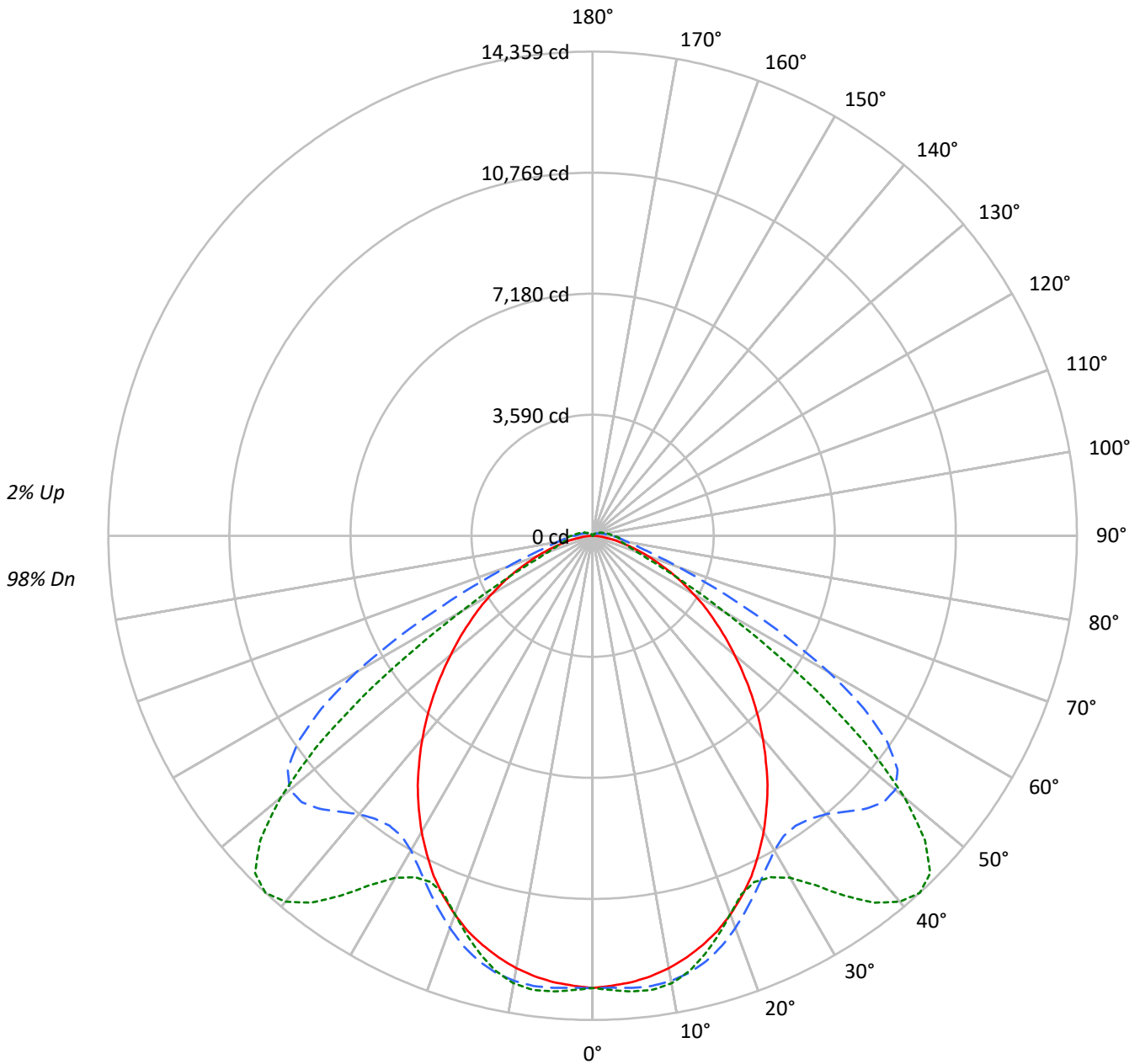
Lumens per Lamp: N/A
Luminaire Lumens: 40159.0 lumens
Efficiency: N/A
Efficacy: 151.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21211	21211	21211
5°	21014	21191	21363
10°	20750	21168	21298
15°	20345	20828	20526
20°	19791	20121	19434
25°	19049	19264	18955
30°	18062	18629	20295
35°	16936	18984	23620
40°	15629	20573	27140
45°	14263	23352	28971
50°	12838	25843	26744
55°	11499	25835	20238
60°	10136	21882	12226
65°	8696	15131	7291
70°	7065	9801	5152
75°	5375	7043	4625
80°	3858	6213	4942
85°	2618	6885	6964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1281.7	3.2
10°-20°	3629.4	9.0
20°-30°	5311.0	13.2
30°-40°	6897.5	17.2
40°-50°	8422.7	21.0
50°-60°	7417.5	18.5
60°-70°	3865.3	9.6
70°-80°	1657.6	4.1
80°-90°	796.0	2.0
90°-100°	374.0	0.9
100°-110°	232.5	0.6
110°-120°	137.4	0.3
120°-130°	74.7	0.2
130°-140°	37.5	0.1
140°-150°	18.0	0.0
150°-160°	6.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10222.1	25.5
0°-40°	17119.6	42.6
0°-60°	32959.7	82.1
0°-90°	39278.6	97.8
90°-120°	743.9	1.9
90°-150°	874.1	2.2
90°-180°	880.0	2.2
0°-180°	40159.0	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	13028	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°	3	307	527	602	616	15
95°	6	179	420	492	506	4
105°	12	101	272	327	333	12
115°	17	58	168	206	211	18
125°	20	29	98	127	130	17
135°	17	17	46	78	81	13
145°	23	17	20	38	43	14
155°	23	23	17	17	17	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-48HE-W-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13412.4	13412.4	13412.4	13412.4	13412.4
2.5°	13354.5	13412.4	13415.3	13496.3	13487.6
5°	13287.9	13389.2	13461.6	13580.2	13565.7
7.5°	13178.0	13337.1	13464.5	13594.7	13583.1
10°	13021.7	13238.7	13406.6	13513.7	13478.9
12.5°	12819.2	13105.6	13270.6	13293.7	13227.2
15°	12573.2	12926.2	13050.7	12952.3	12848.1
17.5°	12295.4	12709.2	12752.6	12538.5	12408.3
20°	11948.2	12419.8	12376.4	12081.3	11936.6
22.5°	11563.3	12101.5	11962.6	11653.0	11514.1
25°	11140.8	11736.9	11537.2	11320.2	11331.8
27.5°	10646.0	11323.1	11129.2	11227.6	11412.8
30°	10142.5	10889.1	10770.4	11343.4	11708.0
32.5°	9589.8	10443.4	10550.5	11681.9	12278.0
35°	9042.9	9997.8	10498.4	12243.3	13027.5
37.5°	8438.1	9546.4	10582.3	12891.5	13713.3
40°	7850.7	9106.5	10773.3	13473.1	14167.6
42.5°	7251.7	8713.0	11094.5	13817.5	14358.6
45°	6658.4	8377.3	11450.4	13863.8	14153.2
47.5°	6065.2	8093.7	11696.4	13496.3	13363.2
50°	5492.3	7842.0	11713.8	12613.7	12069.7
52.5°	4956.9	7610.5	11395.5	11207.4	10362.4
55°	4433.2	7338.5	10663.3	9349.6	8310.8
57.5°	3955.7	6962.3	9534.8	7352.9	6218.6
60°	3449.3	6453.0	8076.4	5379.4	4485.3
62.5°	2983.4	5819.3	6441.4	3744.5	3223.6
65°	2543.6	5084.3	4881.7	2714.3	2335.2
67.5°	2077.7	4323.2	3602.7	1979.3	1736.2
70°	1713.1	3617.1	2682.5	1539.5	1397.7
72.5°	1339.8	2945.8	2005.3	1250.1	1172.0
75°	1024.4	2378.6	1568.4	1073.6	1018.6
77.5°	755.3	1880.9	1261.7	949.1	897.1
80°	529.5	1481.6	1056.2	847.9	827.6
82.5°	355.9	1145.9	899.9	807.3	810.2
85°	217.0	847.9	798.7	781.3	790.0
87.5°	104.2	601.9	685.8	711.9	720.5
90°	2.9	306.7	526.7	601.9	616.4
92.5°	0.0	234.4	463.0	538.2	552.7
95°	5.8	179.4	419.6	491.9	506.4
97.5°	5.8	147.6	376.2	451.4	460.1
100°	8.7	127.3	335.7	408.0	416.7
102.5°	8.7	112.9	300.9	364.6	370.4
105°	11.6	101.3	272.0	327.0	332.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	17.4	69.4	191.0	231.5	237.3
115°	17.4	57.9	167.8	205.5	211.2
117.5°	20.3	52.1	147.6	182.3	185.2
120°	20.3	43.4	127.3	162.0	164.9
122.5°	20.3	34.7	112.9	144.7	147.6
125°	20.3	28.9	98.4	127.3	130.2
127.5°	17.4	20.3	83.9	112.9	115.7
130°	17.4	17.4	69.4	98.4	104.2
132.5°	17.4	17.4	57.9	86.8	92.6
135°	17.4	17.4	46.3	78.1	81.0
137.5°	17.4	17.4	37.6	66.6	72.3
140°	17.4	17.4	28.9	57.9	60.8
142.5°	20.3	17.4	26.0	49.2	52.1
145°	23.1	17.4	20.3	37.6	43.4
147.5°	23.1	20.3	20.3	31.8	34.7
150°	23.1	23.1	17.4	23.1	28.9
152.5°	23.1	23.1	17.4	17.4	23.1
155°	23.1	23.1	17.4	17.4	17.4
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	14.5	89.7	243.1	292.3	298.1
110°	14.5	78.1	214.1	260.4	266.2



(END OF REPORT)