

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: P830470

Luminaire Tested: **OHBL-48HE-MCL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830470
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-MCL-UNV-L850-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

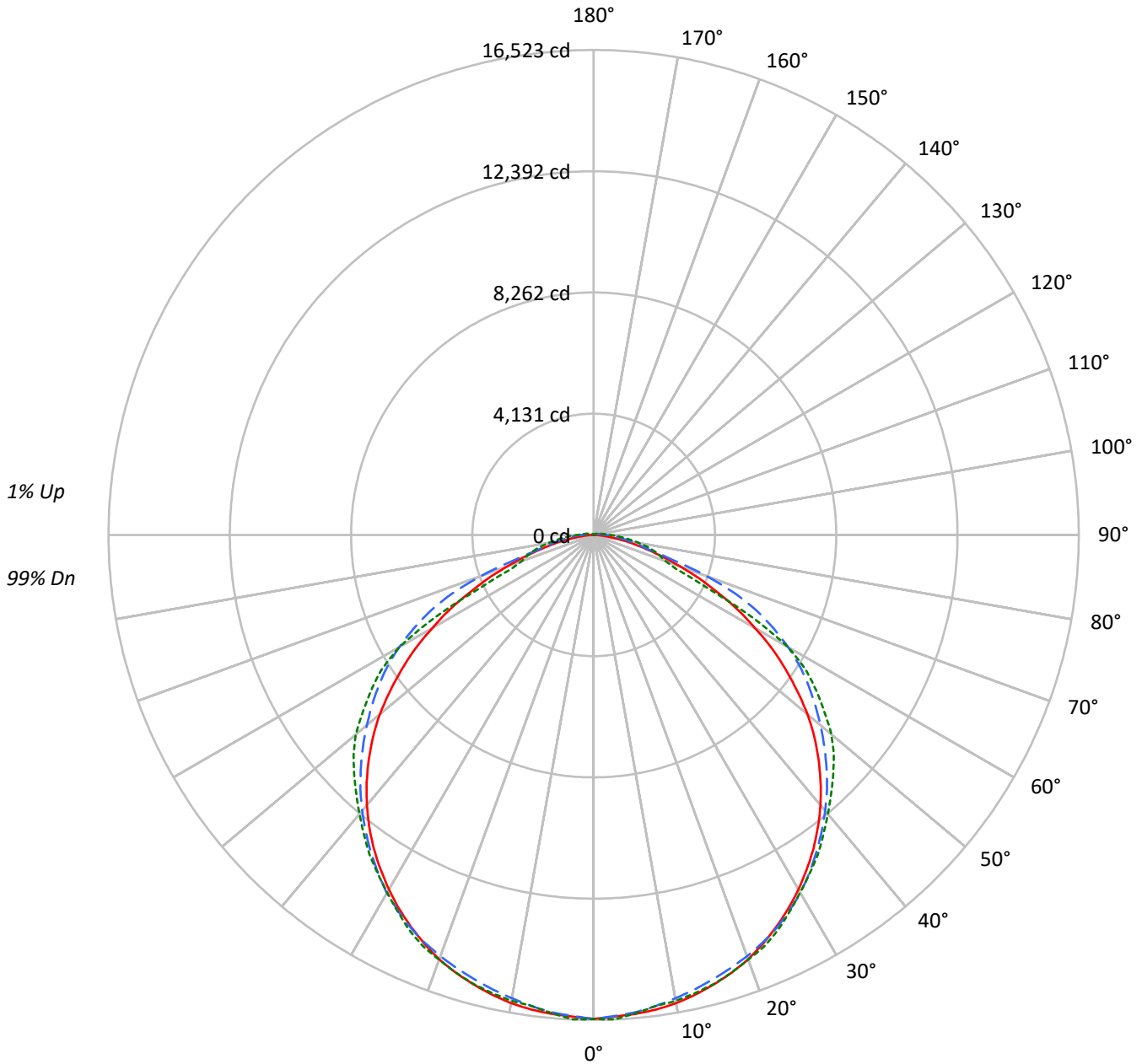
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46608.0 lumens
Efficiency: N/A
Efficacy: 175.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
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

TEST NUMBER: P830470
CATALOG NUMBER: OHBL-48HE-MCL-UNV-L850-CD

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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26078	26078	26078
5°	25908	25700	25754
10°	25813	25310	25468
15°	25649	25019	25297
20°	25485	24836	25073
25°	25178	24651	24851
30°	24843	24360	24381
35°	24444	23898	24122
40°	23924	23421	23769
45°	23203	22869	23612
50°	22227	22240	23425
55°	20675	21622	22551
60°	18644	20717	20849
65°	15993	19038	13213
70°	12882	14862	9580
75°	9658	8822	9722
80°	6723	7336	9283
85°	3826	6722	8701



TEST NUMBER: P830470

CATALOG NUMBER: OHBL-48HE-MCL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1554.9	3.3
10°-20°	4458.6	9.6
20°-30°	6809.6	14.6
30°-40°	8262.4	17.7
40°-50°	8659.8	18.6
50°-60°	7847.1	16.8
60°-70°	5261.2	11.3
70°-80°	2362.5	5.1
80°-90°	857.3	1.8
90°-100°	258.1	0.6
100°-110°	121.8	0.3
110°-120°	61.0	0.1
120°-130°	33.7	0.1
130°-140°	23.1	0.0
140°-150°	15.6	0.0
150°-160°	11.5	0.0
160°-170°	7.4	0.0
170°-180°	2.4	0.0
0°-30°	12823.1	27.5
0°-40°	21085.5	45.2
0°-60°	37592.4	80.7
0°-90°	46073.4	98.9
90°-120°	440.8	0.9
90°-150°	513.2	1.1
90°-180°	535.0	1.1
0°-180°	46608.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16490	16490	16490	16490	16490	
5°	16383	16440	16325	16376	16354	###
15°	15851	15789	15677	15815	15834	4475
25°	14726	14661	14764	14900	14857	6788
35°	13052	13083	13216	13357	13304	8158
45°	10832	11008	11214	11500	11535	8344
55°	7971	8355	8924	9282	9261	7115
65°	4678	5410	6142	5184	4232	4661
75°	1841	2670	1965	2010	2141	2012
85°	317	608	780	942	987	387
90°	2	203	403	506	529	19
95°	2	126	277	336	346	3
105°	10	55	136	164	172	11
115°	19	29	69	88	93	18
125°	17	19	43	50	52	17
135°	22	24	26	38	40	17
145°	22	24	24	26	29	14
155°	24	26	26	26	24	11
165°	26	26	26	26	26	7
175°	26	26	24	22	22	3
180°	24	24	24	24	24	



TEST NUMBER: P830470

CATALOG NUMBER: OHBL-48HE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16489.9	16489.9	16489.9	16489.9	16489.9
2.5°	16423.2	16492.3	16406.5	16499.5	16523.3
5°	16382.7	16439.9	16325.4	16375.5	16354.0
7.5°	16308.7	16327.8	16191.9	16232.4	16189.5
10°	16199.1	16189.5	16029.8	16108.5	16118.0
12.5°	16036.9	16008.3	15865.3	15984.5	15986.9
15°	15851.0	15789.0	15676.9	15815.2	15834.3
17.5°	15636.4	15555.3	15481.4	15660.2	15631.6
20°	15386.0	15290.6	15276.3	15471.8	15400.3
22.5°	15076.0	15002.1	15035.5	15221.5	15176.2
25°	14725.6	14661.2	14763.7	14899.6	14856.7
27.5°	14356.0	14317.8	14434.7	14539.6	14456.1
30°	13950.7	13929.2	14084.2	14170.0	14065.1
32.5°	13509.6	13516.7	13664.5	13781.4	13683.6
35°	13051.8	13082.8	13216.3	13357.0	13304.5
37.5°	12548.7	12617.8	12751.3	12911.1	12856.2
40°	12017.0	12117.1	12264.9	12458.1	12408.0
42.5°	11442.3	11568.7	11759.5	11974.0	11969.3
45°	10832.0	11008.4	11213.5	11499.6	11535.3
47.5°	10197.7	10395.6	10655.5	11037.0	11091.9
50°	9508.7	9756.6	10080.9	10538.7	10572.1
52.5°	8740.9	9079.5	9508.7	9947.4	9906.8
55°	7970.8	8354.7	8924.5	9282.2	9260.7
57.5°	7203.0	7634.6	8326.0	8581.2	8578.8
60°	6344.7	6890.7	7646.5	7839.6	7648.9
62.5°	5550.7	6137.2	6921.7	6781.0	6127.7
65°	4678.0	5410.0	6142.0	5183.5	4232.2
67.5°	3903.1	4666.1	5216.9	3550.3	3040.0
70°	3123.5	3965.1	4067.6	2634.7	2598.9
72.5°	2432.0	3328.5	2806.3	2255.6	2370.0
75°	1840.7	2670.4	1964.7	2010.0	2141.1
77.5°	1342.4	2050.5	1528.3	1762.0	1869.3
80°	922.7	1452.1	1247.0	1480.7	1554.6
82.5°	579.4	958.5	999.0	1192.2	1268.5
85°	317.1	608.0	779.7	941.8	987.1
87.5°	131.1	367.2	596.1	727.2	765.4
90°	2.4	202.7	402.9	505.5	529.3
92.5°	2.4	155.0	329.0	407.7	424.4
95°	2.4	126.4	276.6	336.2	345.7
97.5°	4.8	100.1	231.3	279.0	288.5
100°	7.2	83.5	193.1	233.7	240.8
102.5°	9.5	66.8	162.1	195.5	202.7
105°	9.5	54.8	135.9	164.5	171.7



TEST NUMBER: P830470

CATALOG NUMBER: OHBL-48HE-MCL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.7	33.4	81.1	102.5	107.3
115°	19.1	28.6	69.1	88.2	93.0
117.5°	19.1	23.8	59.6	73.9	78.7
120°	19.1	21.5	52.5	64.4	66.8
122.5°	19.1	19.1	45.3	57.2	59.6
125°	16.7	19.1	42.9	50.1	52.5
127.5°	19.1	19.1	38.1	45.3	47.7
130°	19.1	21.5	33.4	42.9	42.9
132.5°	21.5	23.8	31.0	40.5	40.5
135°	21.5	23.8	26.2	38.1	40.5
137.5°	23.8	23.8	23.8	35.8	38.1
140°	23.8	23.8	21.5	31.0	33.4
142.5°	21.5	23.8	21.5	28.6	31.0
145°	21.5	23.8	23.8	26.2	28.6
147.5°	23.8	23.8	23.8	23.8	26.2
150°	23.8	23.8	23.8	23.8	23.8
152.5°	23.8	23.8	23.8	23.8	23.8
155°	23.8	26.2	26.2	26.2	23.8
157.5°	23.8	26.2	26.2	26.2	26.2
160°	23.8	26.2	26.2	26.2	26.2
162.5°	26.2	26.2	26.2	26.2	26.2
165°	26.2	26.2	26.2	26.2	26.2
167.5°	26.2	28.6	26.2	26.2	26.2
170°	26.2	26.2	26.2	23.8	23.8
172.5°	26.2	26.2	26.2	23.8	23.8
175°	26.2	26.2	23.8	21.5	21.5
177.5°	28.6	26.2	23.8	21.5	19.1
180°	23.8	23.8	23.8	23.8	23.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	11.9	45.3	116.8	140.7	145.4
110°	14.3	38.1	97.8	119.2	124.0



(END OF REPORT)