

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: P830577

Luminaire Tested: **OHBL-48SE-NL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-NL-UNV-L840-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

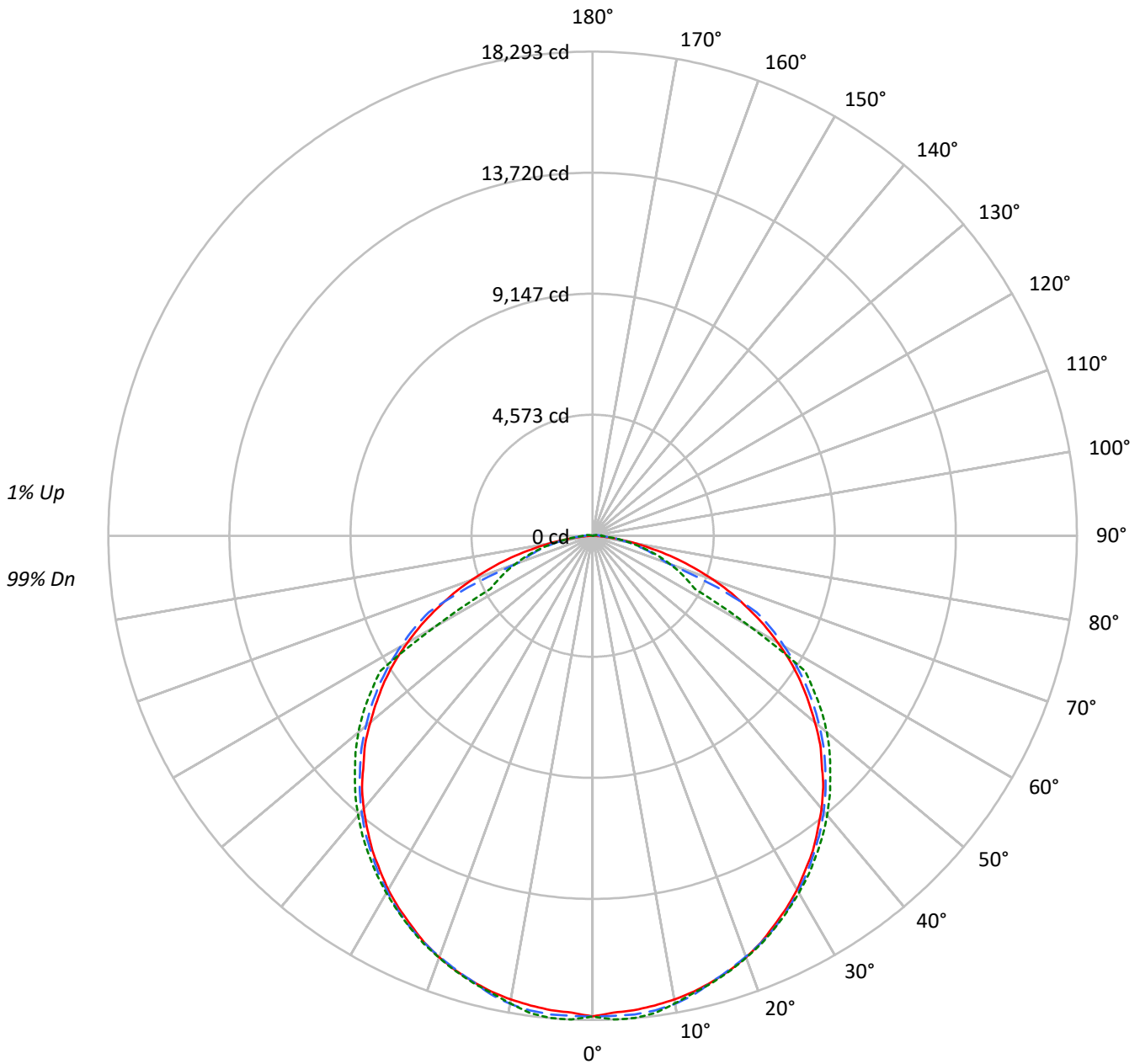
Lumens per Lamp: N/A
Luminaire Lumens: 50984.0 lumens
Efficiency: N/A
Efficacy: 176.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 288.8
Input Voltage (V): NR
Input Current (Ain): 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31016	31016	31016
5°	30844	31123	31358
10°	30853	31146	31107
15°	30848	30842	30910
20°	30805	30759	30834
25°	30595	30751	30775
30°	30453	30610	30730
35°	30256	30422	30707
40°	29995	30279	30727
45°	29562	30009	30663
50°	29117	29710	30692
55°	28559	29300	30354
60°	27603	28583	23631
65°	26115	27634	15904
70°	24155	14670	15435
75°	21069	13941	14740
80°	16203	12788	13508
85°	8178	12924	13236



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1725.2	3.4
10°-20°	4939.7	9.7
20°-30°	7516.2	14.7
30°-40°	9138.6	17.9
40°-50°	9608.8	18.8
50°-60°	8774.0	17.2
60°-70°	5624.6	11.0
70°-80°	2657.0	5.2
80°-90°	736.7	1.4
90°-100°	195.1	0.4
100°-110°	53.4	0.1
110°-120°	14.8	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	14181.0	27.8
0°-40°	23319.6	45.7
0°-60°	41702.4	81.8
0°-90°	50720.6	99.5
90°-120°	263.3	0.5
90°-150°	263.3	0.5
90°-180°	263.0	0.5
0°-180°	50984.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18159	18159	18159	18159	18159	
5°	17990	18060	18153	18252	18290	###
15°	17445	17576	17442	17468	17480	4925
25°	16235	16260	16317	16343	16330	7491
35°	14511	14425	14590	14769	14727	9068
45°	12239	12216	12424	12717	12694	9460
55°	9591	9518	9840	10168	10193	8553
65°	6462	6462	6838	3922	3935	6406
75°	3193	3253	2112	2224	2234	3366
85°	417	529	660	714	675	617
90°	0	178	293	347	341	18
95°	9	92	210	284	284	5
105°	16	35	51	51	48	16
115°	16	22	32	22	3	11
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18159.2	18159.2	18159.2	18159.2	18159.2
2.5°	18031.7	18092.4	18159.2	18245.2	18292.8
5°	17990.2	18060.3	18152.8	18251.6	18289.7
7.5°	17901.1	17999.6	18089.0	18159.2	18181.5
10°	17789.5	17907.5	17958.5	17952.1	17936.2
12.5°	17639.7	17764.2	17748.3	17674.8	17687.6
15°	17445.4	17575.9	17442.3	17467.6	17480.4
17.5°	17216.0	17343.5	17187.3	17238.2	17241.6
20°	16948.4	17043.9	16922.8	16964.3	16964.3
22.5°	16626.6	16693.4	16642.5	16671.1	16677.5
25°	16234.6	16259.9	16317.3	16342.9	16330.1
27.5°	15858.8	15826.8	15938.4	15998.8	15966.8
30°	15441.2	15390.2	15520.8	15619.6	15581.5
32.5°	14963.1	14931.4	15081.2	15198.9	15176.7
35°	14510.8	14424.7	14590.4	14768.8	14727.3
37.5°	13975.4	13924.4	14112.3	14300.6	14278.3
40°	13452.8	13366.8	13580.3	13803.3	13781.1
42.5°	12892.2	12789.9	13022.7	13290.6	13264.9
45°	12238.7	12216.4	12423.6	12716.7	12694.5
47.5°	11659.1	11547.5	11837.3	12121.0	12146.6
50°	10957.8	10916.6	11181.1	11525.2	11550.5
52.5°	10273.0	10244.3	10521.3	10868.7	10913.3
55°	9590.8	9517.6	9839.5	10167.7	10193.4
57.5°	8861.5	8784.9	9113.2	9470.1	9524.1
60°	8080.5	8007.3	8367.3	8698.9	6917.7
62.5°	7299.9	7249.0	7625.1	5401.0	4352.8
65°	6461.9	6461.9	6837.7	3922.4	3935.2
67.5°	5678.3	5627.3	5098.4	3524.0	3524.0
70°	4836.9	4856.1	2937.6	3087.8	3090.8
72.5°	3992.5	4062.7	2536.5	2657.3	2663.7
75°	3192.7	3253.4	2112.5	2224.1	2233.6
77.5°	2345.3	1803.5	1698.2	1784.6	1787.6
80°	1647.3	1137.5	1300.1	1382.8	1373.3
82.5°	962.1	796.5	952.7	1013.4	1010.0
85°	417.3	529.0	659.5	713.8	675.4
87.5°	133.6	328.2	410.9	442.9	439.6
90°	0.0	178.5	293.2	347.1	341.1
92.5°	0.0	140.0	255.0	318.8	321.8
95°	9.4	92.4	210.5	283.7	283.7
97.5°	6.4	66.8	149.8	223.0	229.4
100°	6.4	54.0	98.8	159.2	162.6
102.5°	15.9	44.5	60.4	101.9	105.3
105°	15.9	35.1	50.9	50.9	47.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.2	25.6	35.1	25.6	3.0
115°	15.9	22.3	31.7	22.3	3.0
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	15.9	31.7	44.5	28.7	9.4
110°	19.2	28.7	38.1	25.6	3.0



(END OF REPORT)