

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: P830878

Luminaire Tested: **OHBL-90SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830878
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-90SE-W-UNV-L850-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

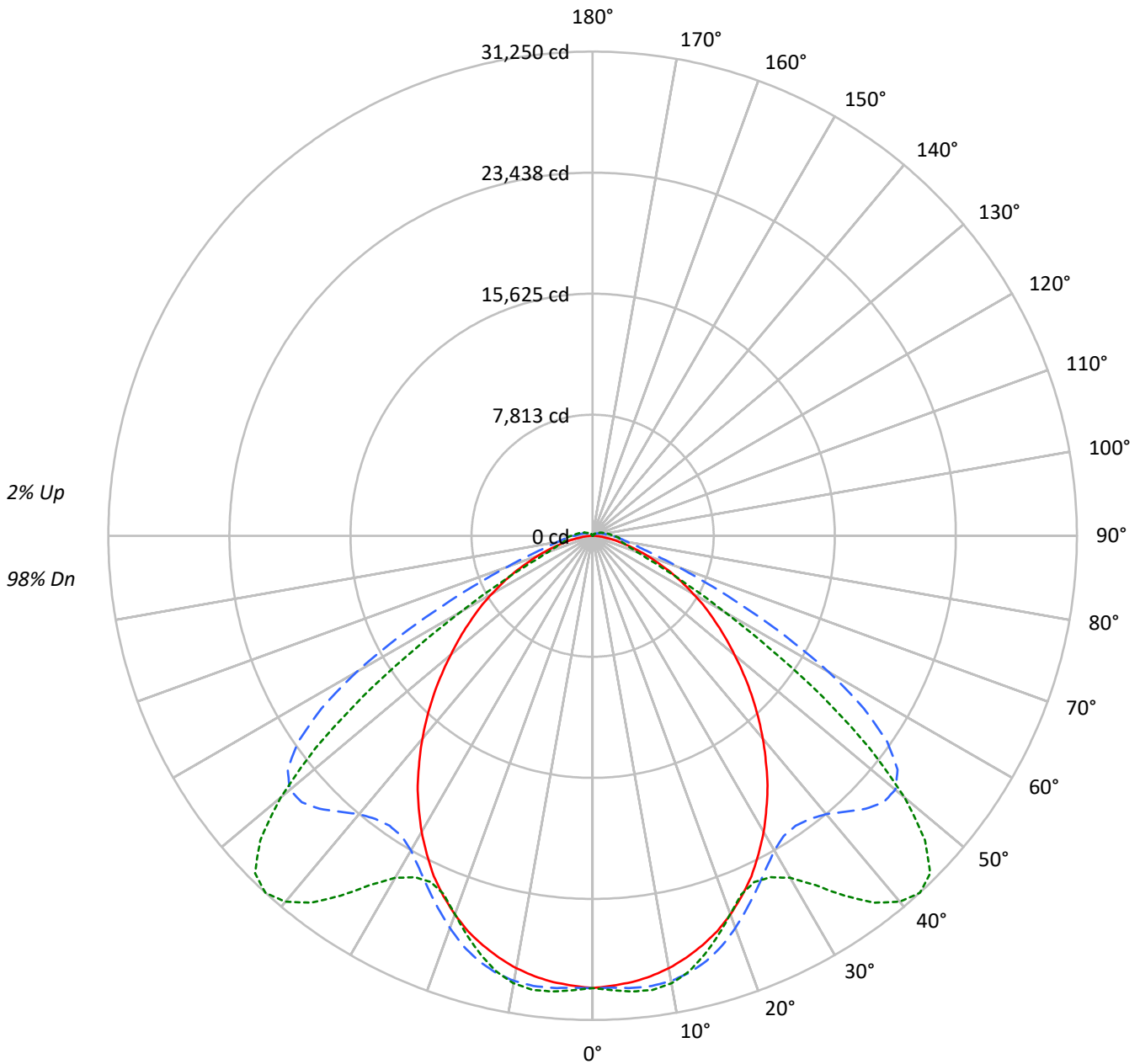
Lumens per Lamp: N/A
Luminaire Lumens: 87403.0 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46165	46165	46165
5°	45735	46121	46494
10°	45161	46072	46353
15°	44280	45330	44674
20°	43073	43792	42296
25°	41458	41926	41254
30°	39310	40544	44171
35°	36859	41316	51406
40°	34016	44775	59067
45°	31043	50824	63053
50°	27942	56245	58206
55°	25027	56228	44046
60°	22060	47624	26608
65°	18926	32932	15867
70°	15377	21331	11213
75°	11698	15328	10067
80°	8397	13523	10755
85°	5699	14985	15155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2789.5	3.2
10°-20°	7899.1	9.0
20°-30°	11559.0	13.2
30°-40°	15011.8	17.2
40°-50°	18331.3	21.0
50°-60°	16143.6	18.5
60°-70°	8412.5	9.6
70°-80°	3607.6	4.1
80°-90°	1732.5	2.0
90°-100°	814.0	0.9
100°-110°	505.9	0.6
110°-120°	299.1	0.3
120°-130°	162.6	0.2
130°-140°	81.6	0.1
140°-150°	39.3	0.0
150°-160°	13.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22247.6	25.5
0°-40°	37259.4	42.6
0°-60°	71734.2	82.1
0°-90°	85486.8	97.8
90°-120°	1619.0	1.9
90°-150°	1902.5	2.2
90°-180°	1916.0	2.2
0°-180°	87403.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29191	29191	29191	29191	29191	
5°	28920	29141	29298	29556	29525	###
15°	27365	28133	28404	28190	27963	7705
25°	24247	25544	25110	24638	24663	11127
35°	19681	21759	22849	26647	28353	12267
45°	14492	18233	24921	30174	30803	11174
55°	9648	15972	23208	20349	18088	8659
65°	5536	11066	10625	5908	5082	5477
75°	2230	5177	3414	2336	2217	2431
85°	472	1845	1738	1700	1719	527
90°	6	668	1146	1310	1342	33
95°	13	390	913	1071	1102	9
105°	25	220	592	712	724	27
115°	38	126	365	447	460	39
125°	44	63	214	277	283	38
135°	38	38	101	170	176	29
145°	50	38	44	82	94	30
155°	50	50	38	38	38	16
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°	29191.0	29191.0	29191.0	29191.0	29191.0
2.5°	29065.0	29191.0	29197.3	29373.6	29354.8
5°	28920.2	29140.6	29298.1	29556.3	29524.8
7.5°	28680.9	29027.3	29304.4	29587.8	29562.6
10°	28340.8	28813.1	29178.4	29411.4	29335.9
12.5°	27899.9	28523.4	28882.4	28932.8	28787.9
15°	27364.6	28133.0	28403.8	28189.6	27962.9
17.5°	26760.0	27660.6	27755.1	27289.0	27005.6
20°	26004.2	27030.8	26936.3	26293.9	25979.1
22.5°	25166.6	26338.0	26035.7	25361.9	25059.5
25°	24247.1	25544.5	25109.9	24637.6	24662.8
27.5°	23170.2	24643.9	24221.9	24436.1	24839.1
30°	22074.3	23699.2	23441.0	24688.0	25481.5
32.5°	20871.4	22729.3	22962.3	25424.8	26722.2
35°	19681.1	21759.4	22849.0	26646.6	28353.4
37.5°	18364.8	20776.9	23031.6	28057.4	29846.0
40°	17086.3	19819.7	23447.3	29323.3	30834.8
42.5°	15782.7	18963.1	24146.3	30072.7	31250.4
45°	14491.6	18232.6	24921.0	30173.5	30803.3
47.5°	13200.5	17615.4	25456.3	29373.6	29083.9
50°	11953.5	17067.4	25494.1	27452.8	26268.8
52.5°	10788.4	16563.6	24801.3	24392.0	22553.0
55°	9648.5	15971.6	23208.0	20348.7	18087.7
57.5°	8609.3	15152.9	20751.8	16003.1	13534.3
60°	7507.2	14044.4	17577.6	11707.9	9761.8
62.5°	6493.2	12665.2	14019.2	8149.5	7015.9
65°	5535.9	11065.5	10624.6	5907.5	5082.4
67.5°	4521.9	9409.1	7840.9	4307.8	3778.8
70°	3728.4	7872.4	5838.2	3350.5	3041.9
72.5°	2916.0	6411.3	4364.5	2720.7	2550.7
75°	2229.5	5176.9	3413.5	2336.5	2216.9
77.5°	1643.8	4093.7	2745.9	2065.7	1952.4
80°	1152.5	3224.6	2298.8	1845.3	1801.2
82.5°	774.6	2494.0	1958.7	1757.1	1763.4
85°	472.3	1845.3	1738.2	1700.4	1719.3
87.5°	226.7	1310.0	1492.6	1549.3	1568.2
90°	6.3	667.6	1146.2	1310.0	1341.5
92.5°	0.0	510.1	1007.7	1171.4	1202.9
95°	12.6	390.5	913.2	1070.7	1102.1
97.5°	12.6	321.2	818.7	982.5	1001.4
100°	18.9	277.1	730.6	888.0	906.9
102.5°	18.9	245.6	655.0	793.5	806.1
105°	25.2	220.4	592.0	711.7	724.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.8	151.2	415.7	503.8	516.4
115°	37.8	126.0	365.3	447.2	459.8
117.5°	44.1	113.4	321.2	396.8	403.1
120°	44.1	94.5	277.1	352.7	359.0
122.5°	44.1	75.6	245.6	314.9	321.2
125°	44.1	63.0	214.1	277.1	283.4
127.5°	37.8	44.1	182.6	245.6	251.9
130°	37.8	37.8	151.2	214.1	226.7
132.5°	37.8	37.8	126.0	188.9	201.5
135°	37.8	37.8	100.8	170.0	176.3
137.5°	37.8	37.8	81.9	144.9	157.4
140°	37.8	37.8	63.0	126.0	132.3
142.5°	44.1	37.8	56.7	107.1	113.4
145°	50.4	37.8	44.1	81.9	94.5
147.5°	50.4	44.1	44.1	69.3	75.6
150°	50.4	50.4	37.8	50.4	63.0
152.5°	50.4	50.4	37.8	37.8	50.4
155°	50.4	50.4	37.8	37.8	37.8
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°	31.5	195.2	529.0	636.1	648.7
110°	31.5	170.0	466.0	566.8	579.4



(END OF REPORT)