

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: P830852

Luminaire Tested: **OHBL-90SE-N-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830852
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-N-UNV-L835-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

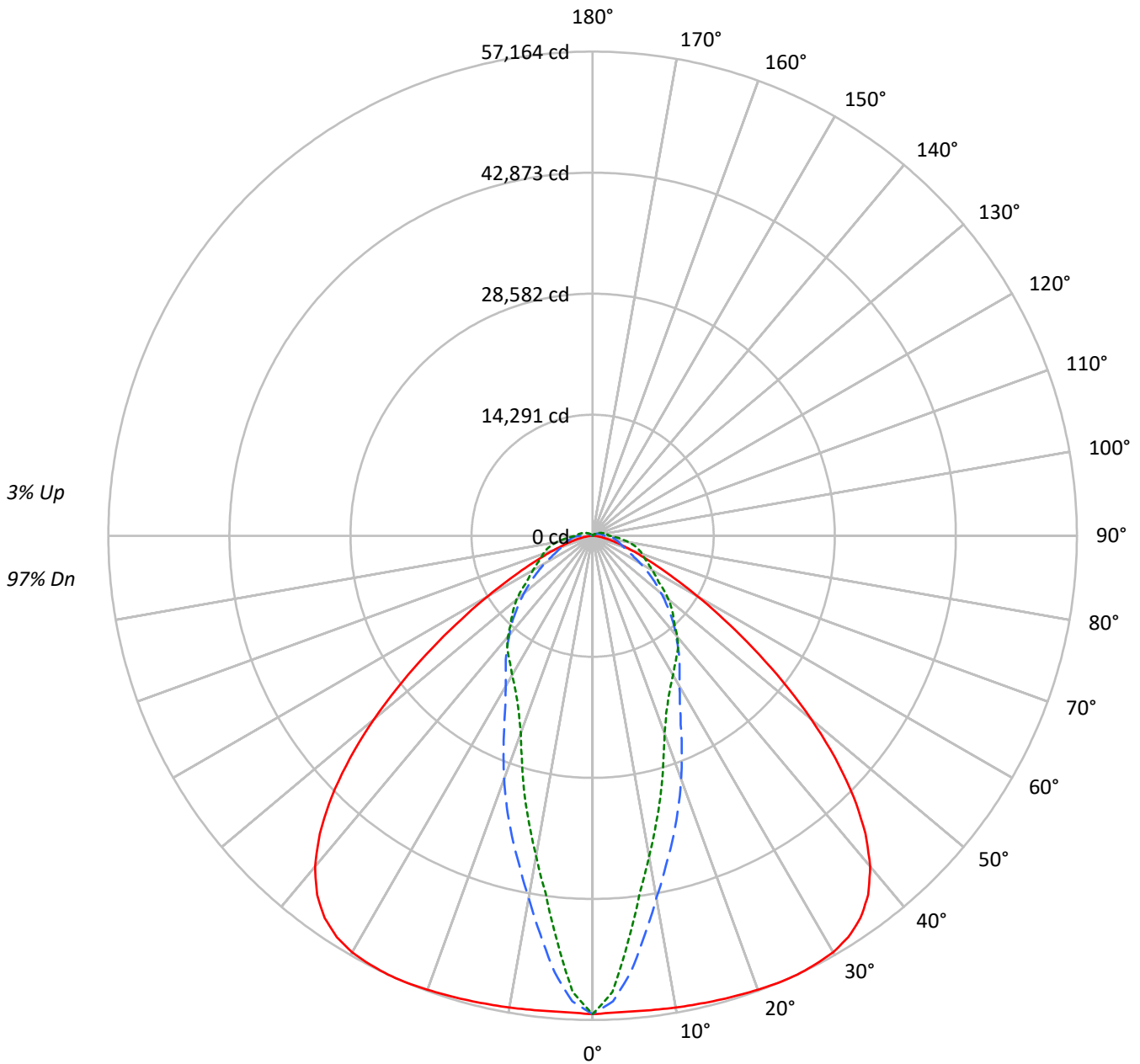
Lumens per Lamp: N/A
Luminaire Lumens: 83345.0 lumens
Efficiency: N/A
Efficacy: 157.6 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830852

CATALOG NUMBER: OHBL-90SE-N-UNV-L835-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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	97																	
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	89307	89307	89307
5°	89125	81366	75665
10°	90131	68569	60711
15°	91891	58670	49862
20°	94472	49631	40356
25°	97740	41101	35385
30°	101118	35427	32897
35°	103222	32304	31367
40°	101456	29199	29785
45°	93335	26405	27603
50°	78746	23347	25938
55°	59835	20469	23113
60°	41932	17576	22165
65°	28206	15160	21747
70°	19263	14256	22881
75°	13367	14746	24552
80°	9202	16409	25449
85°	5382	20711	27051



TEST NUMBER: P830852

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4753.6	5.7
10°-20°	11182.7	13.4
20°-30°	14017.4	16.8
30°-40°	14874.0	17.8
40°-50°	13448.5	16.1
50°-60°	9751.0	11.7
60°-70°	6119.2	7.3
70°-80°	4049.5	4.9
80°-90°	2332.9	2.8
90°-100°	1130.2	1.4
100°-110°	780.1	0.9
110°-120°	481.4	0.6
120°-130°	233.2	0.3
130°-140°	107.2	0.1
140°-150°	58.6	0.1
150°-160°	25.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	29953.7	35.9
0°-40°	44827.7	53.8
0°-60°	68027.2	81.6
0°-90°	80528.8	96.6
90°-120°	2391.7	2.9
90°-150°	2790.7	3.3
90°-180°	2816.0	3.4
0°-180°	83345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	56471	56471	56471	56471	56471	
5°	56358	54912	51687	49290	48049	###
15°	56788	46286	36762	32694	31210	16105
25°	57164	35789	24616	21848	21154	26409
35°	55116	23793	17865	17306	17301	34263
45°	43572	15070	12947	13259	13485	33193
55°	23068	9341	8449	9164	9492	20842
65°	8250	5418	4891	6267	6966	8585
75°	2548	2918	3284	5100	5407	2840
85°	446	1209	2402	3343	3069	535
90°	0	505	1392	1962	1978	29
95°	22	355	1225	1666	1741	19
105°	43	236	892	1182	1215	43
115°	59	167	602	752	769	58
125°	64	86	306	387	382	56
135°	54	64	134	210	210	42
145°	64	70	81	124	118	39
155°	64	81	86	91	81	20
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830852

CATALOG NUMBER: OHBL-90SE-N-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	56470.7	56470.7	56470.7	56470.7	56470.7
2.5°	56352.4	56030.0	55024.9	54412.2	53896.3
5°	56357.8	54912.1	51687.3	49290.2	48048.7
7.5°	56438.4	53224.4	47414.5	43915.7	42550.5
10°	56562.1	51133.7	43426.6	39696.6	38422.9
12.5°	56653.4	48779.7	39917.0	36084.9	34687.5
15°	56787.8	46285.9	36762.1	32693.6	31210.2
17.5°	56911.4	43937.2	33644.9	29393.6	27743.6
20°	57035.0	41405.7	30527.6	26147.3	24787.5
22.5°	57153.3	38734.6	27485.6	23626.6	22696.8
25°	57164.0	35789.3	24615.6	21847.7	21154.3
27.5°	57024.3	32736.5	22288.4	20358.9	19928.9
30°	56782.4	29775.2	20482.5	19284.0	18977.6
32.5°	56180.5	26754.6	19085.1	18246.7	18069.3
35°	55116.3	23793.3	17865.1	17306.1	17300.8
37.5°	53439.4	21165.1	16542.9	16446.2	16564.4
40°	50961.7	18864.8	15290.7	15548.7	15548.7
42.5°	47656.4	16865.4	14156.6	14420.0	14350.1
45°	43571.7	15070.3	12947.4	13259.1	13484.8
47.5°	38836.7	13490.2	11711.2	12313.2	12624.9
50°	33687.8	11985.3	10582.5	11351.1	11705.8
52.5°	28291.8	10593.3	9480.8	10362.2	10647.0
55°	23067.7	9341.0	8448.8	9163.7	9491.5
57.5°	18338.1	8147.9	7438.4	8115.6	8792.8
60°	14269.5	7121.3	6487.1	7454.5	8131.7
62.5°	10899.6	6207.6	5594.9	6836.5	7513.7
65°	8250.0	5417.6	4890.9	6266.8	6965.5
67.5°	6218.4	4735.0	4342.7	5852.9	6535.5
70°	4670.5	4073.9	3901.9	5594.9	6207.6
72.5°	3450.5	3466.6	3552.6	5369.2	5836.8
75°	2547.5	2918.4	3283.9	5100.5	5406.8
77.5°	1822.0	2418.6	3042.0	4778.0	4885.5
80°	1263.0	1972.5	2789.4	4353.4	4262.0
82.5°	790.1	1580.1	2563.7	3885.8	3633.2
85°	446.1	1209.3	2402.4	3343.0	3068.9
87.5°	198.9	902.9	2101.5	2606.7	2434.7
90°	0.0	505.2	1392.0	1961.7	1977.8
92.5°	10.7	419.2	1284.5	1795.1	1848.9
95°	21.5	354.7	1225.4	1666.1	1741.4
97.5°	26.9	311.7	1150.2	1547.9	1612.4
100°	32.2	279.5	1058.8	1424.3	1478.0
102.5°	37.6	258.0	972.8	1295.3	1338.3
105°	43.0	236.5	892.2	1182.4	1214.7



TEST NUMBER: P830852

CATALOG NUMBER: OHBL-90SE-N-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.7	182.7	671.8	849.2	876.1
115°	59.1	166.6	602.0	752.4	768.6
117.5°	64.5	145.1	526.7	661.1	666.4
120°	64.5	129.0	451.5	564.3	564.3
122.5°	64.5	107.5	376.2	467.6	462.2
125°	64.5	86.0	306.4	387.0	381.6
127.5°	59.1	69.9	247.2	322.5	317.1
130°	59.1	69.9	198.9	274.1	274.1
132.5°	53.7	64.5	161.2	236.5	236.5
135°	53.7	64.5	134.4	209.6	209.6
137.5°	53.7	69.9	112.9	182.7	182.7
140°	53.7	64.5	96.7	161.2	161.2
142.5°	59.1	64.5	86.0	139.7	139.7
145°	64.5	69.9	80.6	123.6	118.2
147.5°	64.5	75.2	80.6	107.5	102.1
150°	64.5	80.6	80.6	96.7	91.4
152.5°	64.5	80.6	80.6	91.4	86.0
155°	64.5	80.6	86.0	91.4	80.6
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°	43.0	220.4	816.9	1058.8	1096.4
110°	48.4	198.9	747.1	945.9	983.5



(END OF REPORT)