

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: P830828

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830828
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-90SE-MCL-UNV-L835-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

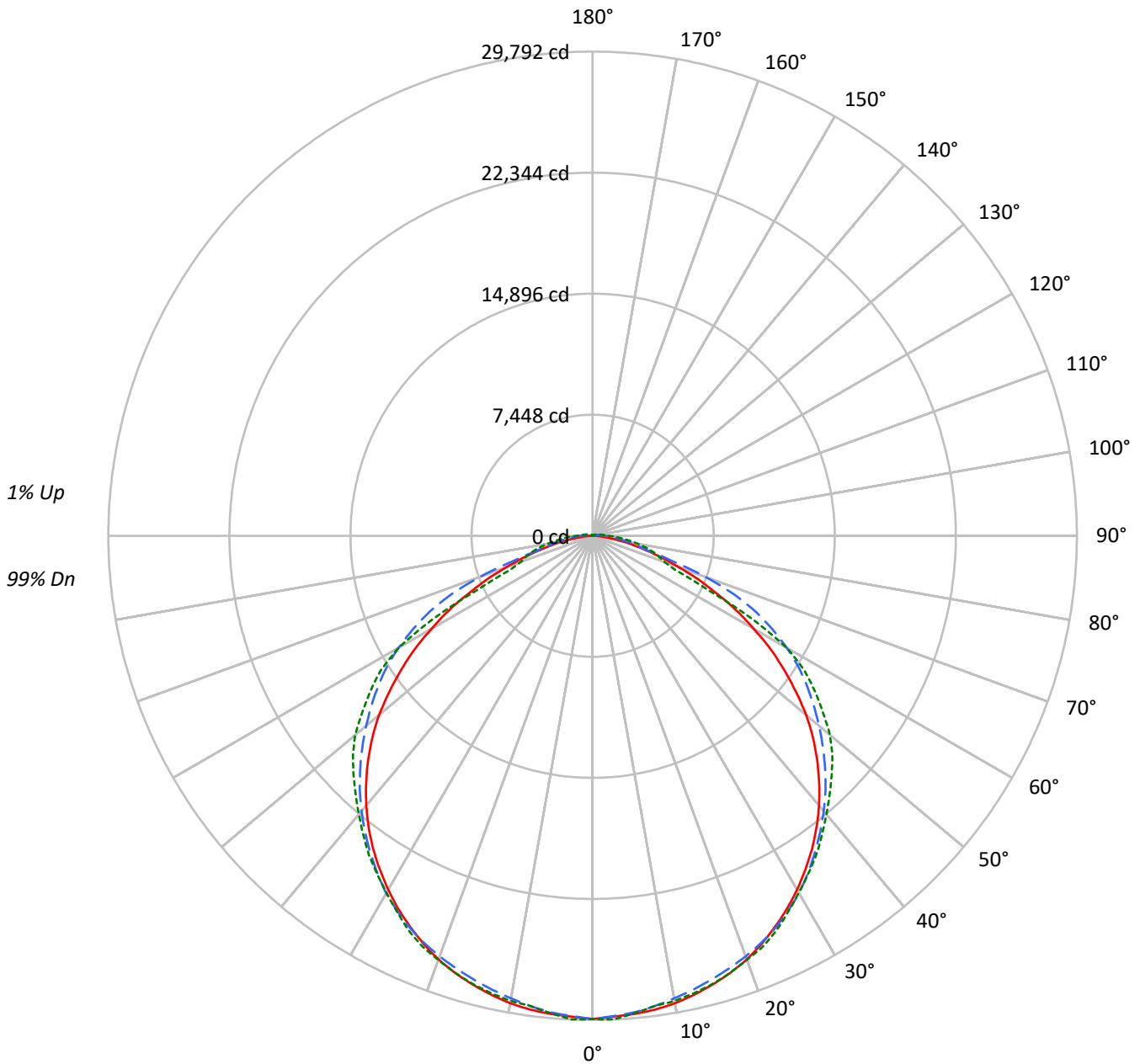
Lumens per Lamp: N/A
Luminaire Lumens: 84034.1 lumens
Efficiency: N/A
Efficacy: 158.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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	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°	47019	47019	47019
5°	46712	46336	46434
10°	46541	45634	45918
15°	46245	45110	45611
20°	45950	44779	45207
25°	45396	44446	44807
30°	44793	43921	43959
35°	44072	43088	43491
40°	43134	42228	42855
45°	41835	41232	42573
50°	40075	40099	42236
55°	37278	38984	40660
60°	33615	37353	37590
65°	28836	34325	23823
70°	23227	26795	17272
75°	17414	15907	17530
80°	12121	13226	16737
85°	6899	12118	15688



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2803.4	3.3
10°-20°	8038.8	9.6
20°-30°	12277.8	14.6
30°-40°	14897.1	17.7
40°-50°	15613.6	18.6
50°-60°	14148.3	16.8
60°-70°	9485.9	11.3
70°-80°	4259.6	5.1
80°-90°	1545.7	1.8
90°-100°	465.3	0.6
100°-110°	219.5	0.3
110°-120°	110.0	0.1
120°-130°	60.7	0.1
130°-140°	41.7	0.0
140°-150°	28.1	0.0
150°-160°	20.9	0.0
160°-170°	13.4	0.0
170°-180°	4.3	0.0
0°-30°	23119.9	27.5
0°-40°	38017.1	45.2
0°-60°	67779.0	80.7
0°-90°	83070.2	98.9
90°-120°	794.9	0.9
90°-150°	925.4	1.1
90°-180°	964.0	1.1
0°-180°	84034.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29731	29731	29731	29731	29731	
5°	29538	29641	29435	29525	29486	###
15°	28579	28467	28265	28515	28549	8069
25°	26550	26434	26619	26864	26786	12238
35°	23532	23588	23829	24082	23988	14708
45°	19530	19848	20218	20734	20798	15045
55°	14371	15063	16091	16736	16697	12828
65°	8434	9754	11074	9346	7631	8404
75°	3319	4815	3542	3624	3860	3627
85°	572	1096	1406	1698	1780	698
90°	4	365	726	911	954	34
95°	4	228	499	606	623	6
105°	17	99	245	297	310	20
115°	34	52	125	159	168	32
125°	30	34	77	90	95	30
135°	39	43	47	69	73	31
145°	39	43	43	47	52	26
155°	43	47	47	47	43	20
165°	47	47	47	47	47	13
175°	47	47	43	39	39	5
180°	43	43	43	43	43	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29731.3	29731.3	29731.3	29731.3	29731.3
2.5°	29610.9	29735.6	29580.8	29748.5	29791.5
5°	29537.8	29641.0	29434.7	29525.0	29486.3
7.5°	29404.6	29439.0	29193.9	29267.0	29189.6
10°	29206.8	29189.6	28901.6	29043.5	29060.7
12.5°	28914.5	28862.9	28605.0	28819.9	28824.2
15°	28579.2	28467.4	28265.4	28514.7	28549.1
17.5°	28192.3	28046.1	27912.9	28235.3	28183.7
20°	27740.9	27568.9	27543.2	27895.7	27766.7
22.5°	27182.0	27048.8	27109.0	27444.3	27362.6
25°	26550.1	26434.0	26618.9	26863.9	26786.5
27.5°	25883.8	25815.0	26025.6	26214.8	26064.3
30°	25153.0	25114.3	25393.7	25548.5	25359.3
32.5°	24357.7	24370.6	24637.1	24847.7	24671.5
35°	23532.3	23588.1	23828.9	24082.5	23987.9
37.5°	22625.2	22749.9	22990.6	23278.6	23179.8
40°	21666.5	21847.1	22113.6	22461.8	22371.6
42.5°	20630.5	20858.3	21202.3	21589.2	21580.6
45°	19530.0	19848.1	20217.8	20733.7	20798.2
47.5°	18386.5	18743.3	19211.9	19899.7	19998.6
50°	17144.1	17591.2	18175.8	19001.2	19061.4
52.5°	15759.8	16370.3	17144.1	17935.1	17862.0
55°	14371.3	15063.4	16090.8	16735.7	16697.0
57.5°	12987.0	13765.1	15011.8	15471.8	15467.5
60°	11439.4	12423.9	13786.6	14134.8	13790.9
62.5°	10007.9	11065.4	12479.8	12226.1	11048.2
65°	8434.5	9754.2	11074.0	9345.8	7630.6
67.5°	7037.3	8413.0	9406.0	6401.1	5481.1
70°	5631.6	7149.1	7333.9	4750.3	4685.8
72.5°	4384.9	6001.3	5059.8	4066.8	4273.1
75°	3318.8	4814.8	3542.3	3624.0	3860.4
77.5°	2420.3	3697.1	2755.6	3176.9	3370.3
80°	1663.7	2618.0	2248.3	2669.6	2802.9
82.5°	1044.6	1728.2	1801.2	2149.5	2287.0
85°	571.8	1096.2	1405.7	1698.1	1779.8
87.5°	236.4	662.0	1074.7	1311.2	1380.0
90°	4.3	365.4	726.5	911.4	954.4
92.5°	4.3	279.4	593.3	735.1	765.2
95°	4.3	227.8	498.7	606.1	623.3
97.5°	8.6	180.6	417.0	503.0	520.2
100°	12.9	150.5	348.2	421.3	434.2
102.5°	17.2	120.4	292.3	352.5	365.4
105°	17.2	98.9	245.0	296.6	309.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.1	60.2	146.2	184.9	193.5
115°	34.4	51.6	124.7	159.1	167.7
117.5°	34.4	43.0	107.5	133.3	141.9
120°	34.4	38.7	94.6	116.1	120.4
122.5°	34.4	34.4	81.7	103.2	107.5
125°	30.1	34.4	77.4	90.3	94.6
127.5°	34.4	34.4	68.8	81.7	86.0
130°	34.4	38.7	60.2	77.4	77.4
132.5°	38.7	43.0	55.9	73.1	73.1
135°	38.7	43.0	47.3	68.8	73.1
137.5°	43.0	43.0	43.0	64.5	68.8
140°	43.0	43.0	38.7	55.9	60.2
142.5°	38.7	43.0	38.7	51.6	55.9
145°	38.7	43.0	43.0	47.3	51.6
147.5°	43.0	43.0	43.0	43.0	47.3
150°	43.0	43.0	43.0	43.0	43.0
152.5°	43.0	43.0	43.0	43.0	43.0
155°	43.0	47.3	47.3	47.3	43.0
157.5°	43.0	47.3	47.3	47.3	47.3
160°	43.0	47.3	47.3	47.3	47.3
162.5°	47.3	47.3	47.3	47.3	47.3
165°	47.3	47.3	47.3	47.3	47.3
167.5°	47.3	51.6	47.3	47.3	47.3
170°	47.3	47.3	47.3	43.0	43.0
172.5°	47.3	47.3	47.3	43.0	43.0
175°	47.3	47.3	43.0	38.7	38.7
177.5°	51.6	47.3	43.0	38.7	34.4
180°	43.0	43.0	43.0	43.0	43.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	21.5	81.7	210.6	253.6	262.2
110°	25.8	68.8	176.3	214.9	223.5



(END OF REPORT)