

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: P830635

Luminaire Tested: **OHBL-60HE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830635
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-60HE-N-UNV-L830-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

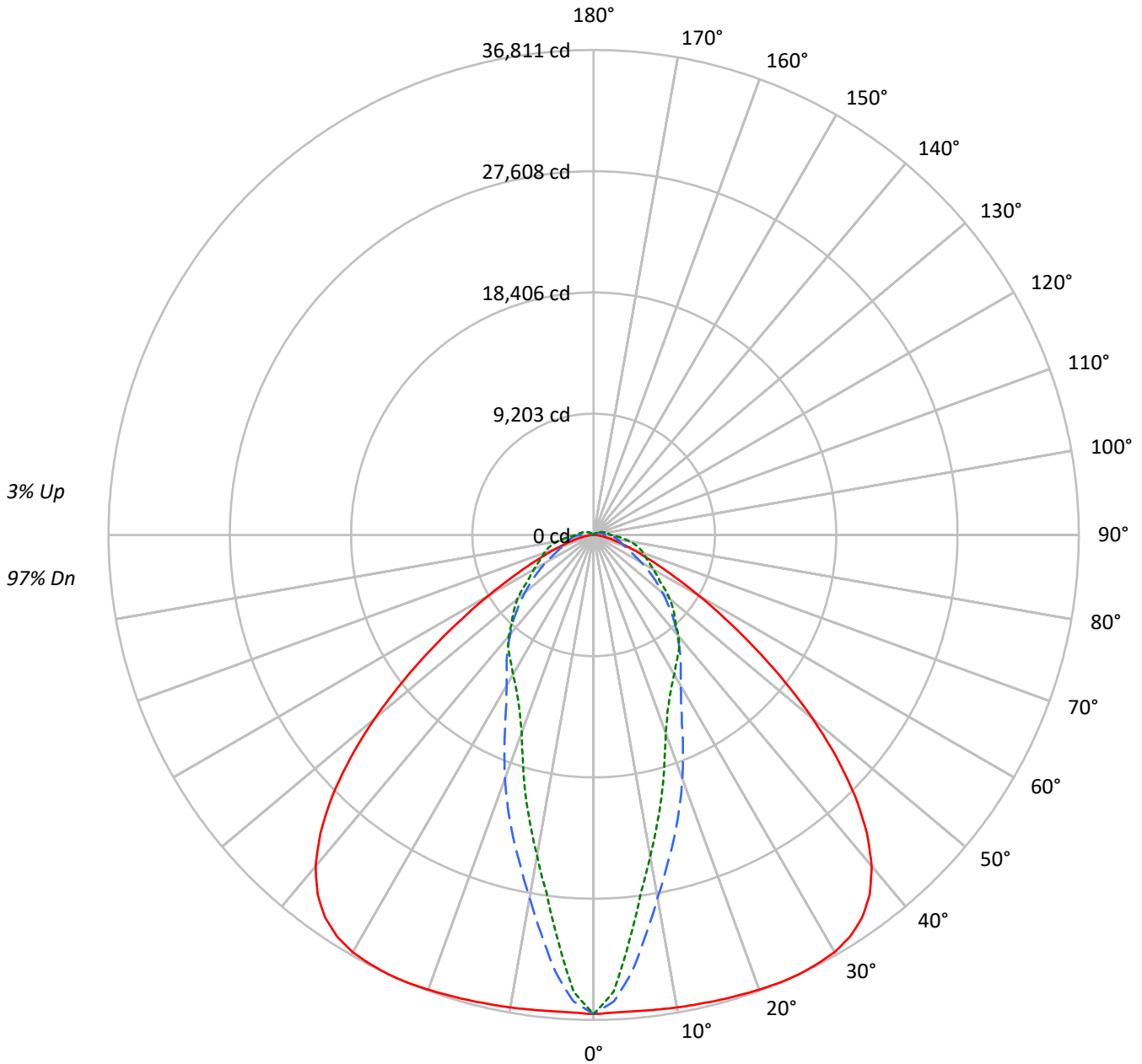
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53670.0 lumens
Efficiency: N/A
Efficacy: 158.8 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): 338
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				20				20
RC	80				70				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	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57509	57509	57509
5°	57392	52396	48725
10°	58040	44155	39095
15°	59173	37780	32109
20°	60835	31960	25987
25°	62940	26467	22786
30°	65115	22813	21184
35°	66470	20802	20199
40°	65332	18803	19180
45°	60103	17003	17775
50°	50709	15034	16703
55°	38531	13181	14884
60°	27002	11318	14273
65°	18163	9762	14004
70°	12404	9180	14735
75°	8608	9496	15810
80°	5925	10566	16388
85°	3466	13336	17420



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3061.1	5.7
10°-20°	7201.1	13.4
20°-30°	9026.5	16.8
30°-40°	9578.1	17.8
40°-50°	8660.1	16.1
50°-60°	6279.2	11.7
60°-70°	3940.5	7.3
70°-80°	2607.7	4.9
80°-90°	1502.3	2.8
90°-100°	727.8	1.4
100°-110°	502.4	0.9
110°-120°	310.0	0.6
120°-130°	150.1	0.3
130°-140°	69.1	0.1
140°-150°	37.7	0.1
150°-160°	16.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	19288.7	35.9
0°-40°	28866.8	53.8
0°-60°	43806.1	81.6
0°-90°	51856.5	96.6
90°-120°	1540.2	2.9
90°-150°	1797.1	3.3
90°-180°	1813.0	3.4
0°-180°	53670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	36364	36364	36364	36364	36364	
5°	36292	35361	33284	31740	30941	###
15°	36568	29806	23673	21053	20098	10371
25°	36811	23046	15851	14069	13622	17006
35°	35492	15322	11504	11144	11141	22064
45°	28058	9704	8337	8538	8684	21374
55°	14854	6015	5441	5901	6112	13421
65°	5313	3489	3150	4036	4485	5528
75°	1640	1879	2115	3284	3482	1829
85°	287	779	1547	2153	1976	344
90°	0	325	896	1263	1274	18
95°	14	228	789	1073	1121	12
105°	28	152	574	761	782	28
115°	38	107	388	484	495	37
125°	42	55	197	249	246	36
135°	35	42	86	135	135	27
145°	42	45	52	80	76	25
155°	42	52	55	59	52	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-60HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	36364.3	36364.3	36364.3	36364.3	36364.3
2.5°	36288.1	36080.5	35433.3	35038.7	34706.5
5°	36291.6	35360.6	33284.0	31740.4	30941.0
7.5°	36343.5	34273.9	30532.6	28279.5	27400.4
10°	36423.1	32927.6	27964.5	25562.6	24742.4
12.5°	36482.0	31411.7	25704.5	23236.9	22337.0
15°	36568.5	29805.8	23673.0	21053.0	20097.8
17.5°	36648.1	28293.3	21665.6	18928.0	17865.5
20°	36727.7	26663.2	19658.2	16837.6	15961.9
22.5°	36803.8	24943.1	17699.3	15214.4	14615.6
25°	36810.8	23046.5	15851.2	14068.8	13622.3
27.5°	36720.8	21080.7	14352.6	13110.1	12833.2
30°	36565.0	19173.7	13189.7	12417.9	12220.6
32.5°	36177.4	17228.6	12289.9	11750.0	11635.7
35°	35492.1	15321.7	11504.2	11144.3	11140.8
37.5°	34412.3	13629.3	10652.8	10590.5	10666.7
40°	32816.8	12148.0	9846.4	10012.6	10012.6
42.5°	30688.3	10860.5	9116.2	9285.8	9240.8
45°	28058.0	9704.5	8337.4	8538.2	8683.5
47.5°	25008.9	8687.0	7541.4	7929.1	8129.8
50°	21693.3	7717.9	6814.6	7309.5	7538.0
52.5°	18218.5	6821.5	6105.1	6672.7	6856.2
55°	14854.4	6015.1	5440.6	5900.9	6112.1
57.5°	11808.8	5246.8	4790.0	5226.0	5662.1
60°	9188.8	4585.8	4177.4	4800.3	5236.4
62.5°	7018.8	3997.4	3602.9	4402.3	4838.4
65°	5312.6	3488.6	3149.5	4035.5	4485.4
67.5°	4004.3	3049.1	2796.5	3769.0	4208.5
70°	3007.6	2623.4	2512.7	3602.9	3997.4
72.5°	2221.9	2232.3	2287.7	3457.5	3758.6
75°	1640.5	1879.3	2114.6	3284.4	3481.7
77.5°	1173.3	1557.4	1958.9	3076.8	3146.0
80°	813.3	1270.2	1796.2	2803.4	2744.5
82.5°	508.8	1017.5	1650.9	2502.3	2339.6
85°	287.3	778.7	1547.0	2152.7	1976.2
87.5°	128.1	581.4	1353.2	1678.6	1567.8
90°	0.0	325.3	896.4	1263.2	1273.6
92.5°	6.9	270.0	827.2	1156.0	1190.6
95°	13.8	228.4	789.1	1072.9	1121.4
97.5°	17.3	200.7	740.6	996.8	1038.3
100°	20.8	180.0	681.8	917.2	951.8
102.5°	24.2	166.1	626.4	834.1	861.8
105°	27.7	152.3	574.5	761.4	782.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	34.6	117.7	432.6	546.8	564.1
115°	38.1	107.3	387.6	484.5	494.9
117.5°	41.5	93.4	339.2	425.7	429.2
120°	41.5	83.1	290.7	363.4	363.4
122.5°	41.5	69.2	242.3	301.1	297.6
125°	41.5	55.4	197.3	249.2	245.7
127.5°	38.1	45.0	159.2	207.7	204.2
130°	38.1	45.0	128.1	176.5	176.5
132.5°	34.6	41.5	103.8	152.3	152.3
135°	34.6	41.5	86.5	135.0	135.0
137.5°	34.6	45.0	72.7	117.7	117.7
140°	34.6	41.5	62.3	103.8	103.8
142.5°	38.1	41.5	55.4	90.0	90.0
145°	41.5	45.0	51.9	79.6	76.1
147.5°	41.5	48.5	51.9	69.2	65.8
150°	41.5	51.9	51.9	62.3	58.8
152.5°	41.5	51.9	51.9	58.8	55.4
155°	41.5	51.9	55.4	58.8	51.9
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°	27.7	141.9	526.1	681.8	706.0
110°	31.1	128.1	481.1	609.1	633.4



(END OF REPORT)