

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: P830650

Luminaire Tested: **OHBL-60HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830650
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-60HE-NL-UNV-L850-CD
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

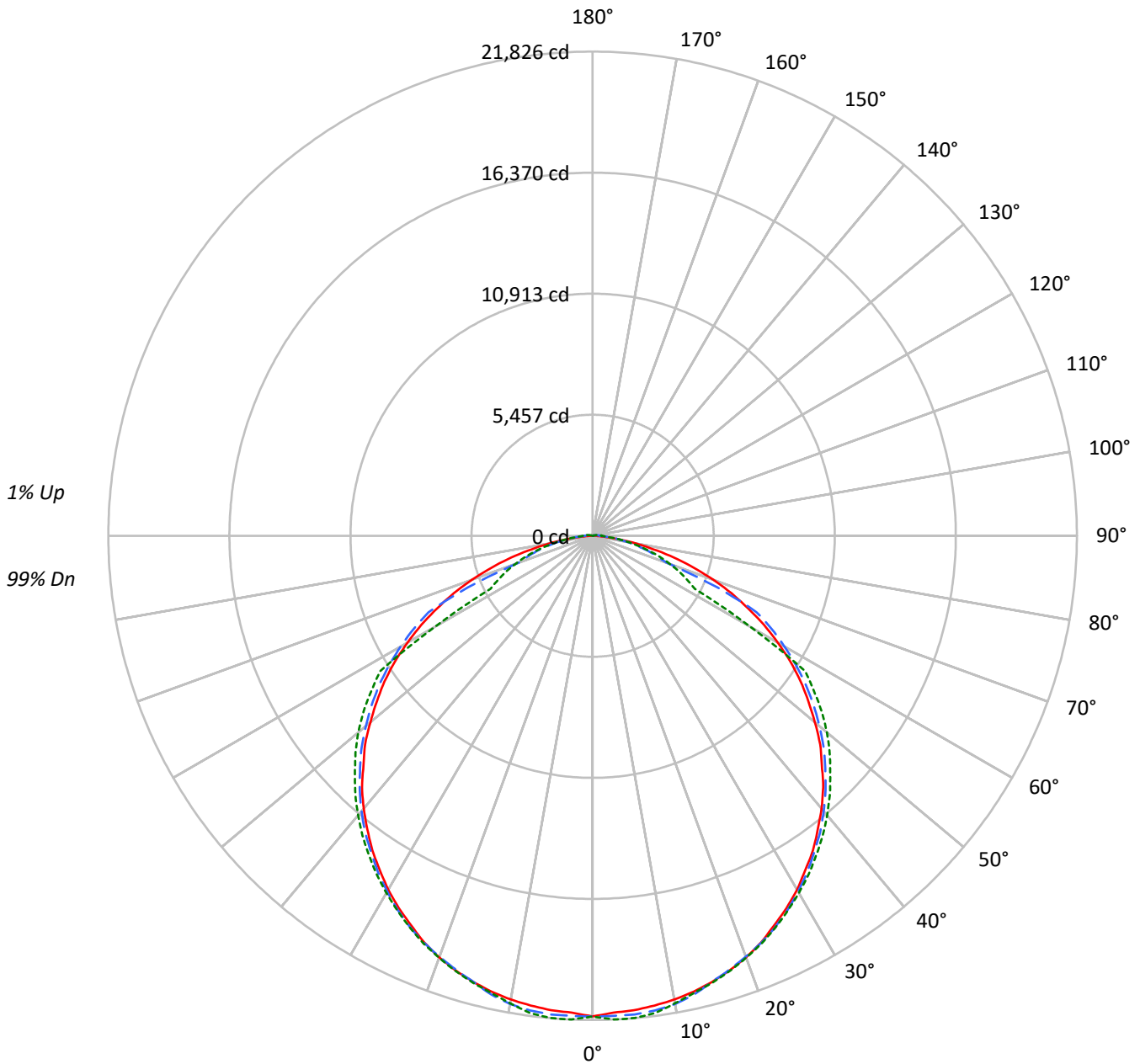
Lumens per Lamp: N/A
Luminaire Lumens: 60833.0 lumens
Efficiency: N/A
Efficacy: 180.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 338
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°	34266	34266	34266
5°	34077	34385	34644
10°	34086	34410	34367
15°	34080	34074	34149
20°	34034	33982	34066
25°	33801	33973	34000
30°	33645	33818	33950
35°	33427	33610	33926
40°	33138	33452	33947
45°	32660	33153	33876
50°	32168	32824	33908
55°	31552	32370	33535
60°	30496	31578	26107
65°	28852	30530	17571
70°	26686	16207	17053
75°	23277	15402	16285
80°	17901	14128	14924
85°	9035	14279	14622



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2058.4	3.4
10°-20°	5893.9	9.7
20°-30°	8968.1	14.7
30°-40°	10904.0	17.9
40°-50°	11465.0	18.8
50°-60°	10468.9	17.2
60°-70°	6711.1	11.0
70°-80°	3170.2	5.2
80°-90°	879.1	1.4
90°-100°	232.8	0.4
100°-110°	63.8	0.1
110°-120°	17.7	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°	16920.5	27.8
0°-40°	27824.5	45.7
0°-60°	49758.4	81.8
0°-90°	60518.8	99.5
90°-120°	314.2	0.5
90°-150°	314.2	0.5
90°-180°	314.0	0.5
0°-180°	60833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	21667	21667	21667	21667	21667	
5°	21466	21549	21660	21777	21823	###
15°	20815	20971	20812	20842	20857	5877
25°	19371	19401	19469	19500	19485	8938
35°	17314	17211	17409	17622	17572	10820
45°	14603	14576	14824	15173	15147	11287
55°	11444	11356	11740	12132	12162	10206
65°	7710	7710	8159	4680	4695	7644
75°	3809	3882	2521	2654	2665	4016
85°	498	631	787	852	806	736
90°	0	213	350	414	407	22
95°	11	110	251	338	338	6
105°	19	42	61	61	57	19
115°	19	27	38	27	4	13
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	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	21667.1	21667.1	21667.1	21667.1	21667.1
2.5°	21515.0	21587.5	21667.1	21769.8	21826.5
5°	21465.5	21549.2	21659.5	21777.4	21822.9
7.5°	21359.2	21476.8	21583.4	21667.1	21693.7
10°	21226.0	21366.9	21427.7	21420.0	21401.1
12.5°	21047.3	21195.8	21176.9	21089.1	21104.4
15°	20815.4	20971.2	20811.8	20842.0	20857.3
17.5°	20541.7	20693.9	20507.5	20568.3	20572.3
20°	20222.5	20336.4	20191.9	20241.4	20241.4
22.5°	19838.5	19918.2	19857.4	19891.6	19899.3
25°	19370.8	19401.0	19469.4	19500.0	19484.7
27.5°	18922.4	18884.1	19017.4	19089.4	19051.2
30°	18424.1	18363.3	18519.1	18637.0	18591.5
32.5°	17853.7	17815.9	17994.6	18135.1	18108.5
35°	17313.9	17211.3	17408.9	17621.8	17572.3
37.5°	16675.1	16614.3	16838.5	17063.1	17036.6
40°	16051.6	15949.0	16203.8	16469.8	16443.3
42.5°	15382.6	15260.7	15538.4	15858.0	15827.4
45°	14603.0	14576.4	14823.5	15173.3	15146.8
47.5°	13911.4	13778.2	14124.0	14462.5	14493.1
50°	13074.6	13025.5	13341.1	13751.6	13781.8
52.5°	12257.5	12223.3	12553.7	12968.3	13021.5
55°	11443.6	11356.2	11740.2	12131.9	12162.5
57.5°	10573.3	10482.0	10873.6	11299.5	11363.9
60°	9641.5	9554.2	9983.7	10379.3	8254.0
62.5°	8710.1	8649.3	9098.1	6444.3	5193.7
65°	7710.2	7710.2	8158.6	4680.1	4695.4
67.5°	6775.2	6714.4	6083.3	4204.7	4204.7
70°	5771.3	5794.2	3505.1	3684.2	3687.9
72.5°	4763.8	4847.5	3026.5	3170.6	3178.3
75°	3809.4	3881.9	2520.6	2653.8	2665.1
77.5°	2798.3	2151.9	2026.3	2129.3	2132.9
80°	1965.5	1357.3	1551.3	1649.9	1638.7
82.5°	1148.0	950.3	1136.7	1209.2	1205.1
85°	497.9	631.1	786.9	851.7	805.8
87.5°	159.4	391.7	490.3	528.5	524.5
90°	0.0	212.9	349.8	414.2	406.9
92.5°	0.0	167.0	304.3	380.4	384.0
95°	11.3	110.3	251.2	338.5	338.5
97.5°	7.6	79.7	178.7	266.1	273.7
100°	7.6	64.4	117.9	190.0	194.0
102.5°	18.9	53.1	72.1	121.6	125.6
105°	18.9	41.9	60.8	60.8	57.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.9	30.6	41.9	30.6	3.6
115°	18.9	26.6	37.8	26.6	3.6
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°	18.9	37.8	53.1	34.2	11.3
110°	22.9	34.2	45.5	30.6	3.6



(END OF REPORT)