

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: P830659

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

Issue Date: 5/3/2024



**Test Information**

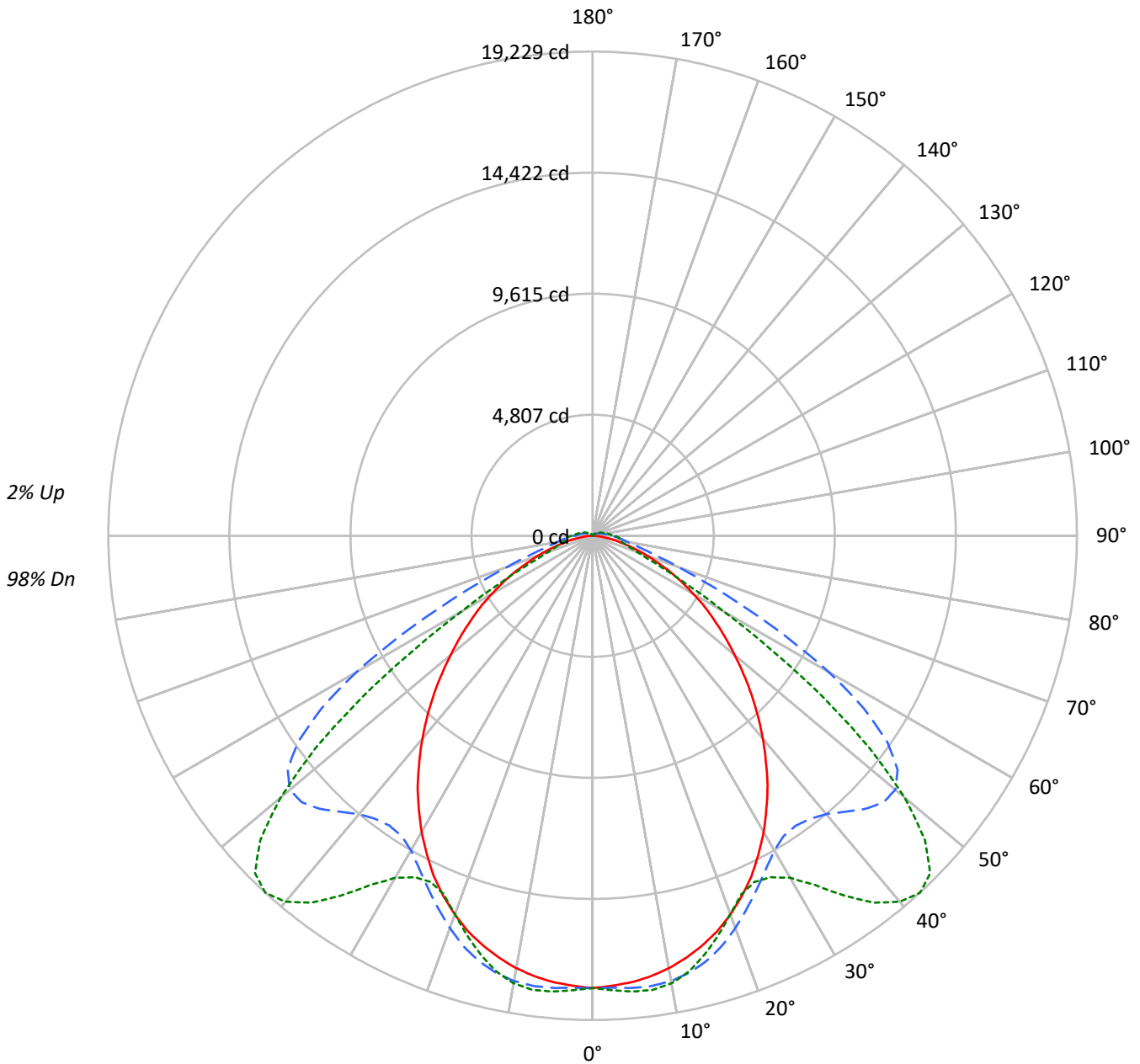
Test Method: LM-79-08  
Report Number: P830659  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-60HE-W-UNV-L830-CD  
Description: 60000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 53782.0 lumens  
Efficiency: N/A  
Efficacy: 159.1 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): 338  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P830659  
CATALOG NUMBER: OHBL-60HE-W-UNV-L830-CD

### Luminous Intensity Polar Plot





TEST NUMBER: P830659

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

**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°	28407	28407	28407
5°	28142	28380	28610
10°	27789	28349	28522
15°	27247	27893	27489
20°	26504	26947	26026
25°	25511	25799	25385
30°	24189	24948	27180
35°	22681	25423	31632
40°	20931	27551	36346
45°	19102	31274	38799
50°	17193	34610	35816
55°	15400	34599	27103
60°	13574	29305	16373
65°	11646	20264	9764
70°	9462	13125	6900
75°	7198	9432	6194
80°	5167	8321	6618
85°	3507	9221	9326



TEST NUMBER: P830659

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1716.5	3.2
10°-20°	4860.6	9.0
20°-30°	7112.6	13.2
30°-40°	9237.3	17.2
40°-50°	11279.8	21.0
50°-60°	9933.7	18.5
60°-70°	5176.5	9.6
70°-80°	2219.9	4.1
80°-90°	1066.1	2.0
90°-100°	500.9	0.9
100°-110°	311.3	0.6
110°-120°	184.1	0.3
120°-130°	100.0	0.2
130°-140°	50.2	0.1
140°-150°	24.2	0.0
150°-160°	8.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	13689.7	25.5
0°-40°	22927.0	42.6
0°-60°	44140.5	82.1
0°-90°	52602.9	97.8
90°-120°	996.2	1.9
90°-150°	1170.6	2.2
90°-180°	1179.0	2.2
0°-180°	53782.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17962	17962	17962	17962	17962	
5°	17796	17931	18028	18187	18168	###
15°	16838	17311	17478	17346	17206	4741
25°	14920	15718	15451	15160	15176	6847
35°	12110	13389	14060	16397	17447	7548
45°	8917	11219	15335	18567	18954	6876
55°	5937	9828	14281	12521	11130	5328
65°	3406	6809	6538	3635	3127	3370
75°	1372	3186	2100	1438	1364	1496
85°	291	1136	1070	1046	1058	324
90°	4	411	705	806	825	20
95°	8	240	562	659	678	6
105°	16	136	364	438	446	16
115°	23	78	225	275	283	24
125°	27	39	132	170	174	23
135°	23	23	62	105	108	18
145°	31	23	27	50	58	18
155°	31	31	23	23	23	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830659

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17962.2	17962.2	17962.2	17962.2	17962.2
2.5°	17884.7	17962.2	17966.1	18074.6	18063.0
5°	17795.6	17931.2	18028.1	18187.0	18167.6
7.5°	17648.3	17861.4	18032.0	18206.4	18190.9
10°	17439.0	17729.7	17954.5	18097.8	18051.3
12.5°	17167.8	17551.4	17772.3	17803.3	17714.2
15°	16838.4	17311.1	17477.8	17346.0	17206.5
17.5°	16466.3	17020.5	17078.6	16791.9	16617.5
20°	16001.3	16633.0	16574.8	16179.5	15985.8
22.5°	15485.9	16206.7	16020.7	15606.0	15420.0
25°	14920.1	15718.4	15451.0	15160.3	15175.8
27.5°	14257.4	15164.2	14904.6	15036.3	15284.3
30°	13583.1	14582.9	14424.0	15191.3	15679.6
32.5°	12842.9	13986.1	14129.5	15644.8	16443.1
35°	12110.4	13389.3	14059.7	16396.6	17446.8
37.5°	11300.5	12784.8	14172.1	17264.6	18365.2
40°	10513.8	12195.7	14427.9	18043.6	18973.7
42.5°	9711.6	11668.7	14858.1	18504.8	19229.4
45°	8917.2	11219.1	15334.7	18566.8	18954.3
47.5°	8122.7	10839.3	15664.1	18074.6	17896.3
50°	7355.4	10502.2	15687.4	16892.6	16164.0
52.5°	6638.5	10192.1	15261.1	15009.2	13877.6
55°	5937.0	9827.9	14280.6	12521.2	11130.0
57.5°	5297.6	9324.1	12769.2	9847.2	8328.1
60°	4619.4	8642.0	10816.1	7204.3	6006.8
62.5°	3995.5	7793.3	8626.5	5014.7	4317.1
65°	3406.4	6809.0	6537.7	3635.1	3127.4
67.5°	2782.5	5789.8	4824.8	2650.7	2325.2
70°	2294.2	4844.2	3592.4	2061.7	1871.8
72.5°	1794.3	3945.1	2685.6	1674.1	1569.5
75°	1371.9	3185.5	2100.4	1437.8	1364.1
77.5°	1011.5	2519.0	1689.6	1271.1	1201.4
80°	709.2	1984.2	1414.5	1135.5	1108.3
82.5°	476.7	1534.6	1205.2	1081.2	1085.1
85°	290.7	1135.5	1069.6	1046.3	1058.0
87.5°	139.5	806.1	918.5	953.3	965.0
90°	3.9	410.8	705.3	806.1	825.4
92.5°	0.0	313.9	620.1	720.8	740.2
95°	7.8	240.3	561.9	658.8	678.2
97.5°	7.8	197.6	503.8	604.6	616.2
100°	11.6	170.5	449.5	546.4	558.0
102.5°	11.6	151.1	403.0	488.3	496.0
105°	15.5	135.6	364.3	437.9	445.7



TEST NUMBER: P830659

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	23.3	93.0	255.8	310.0	317.8
115°	23.3	77.5	224.8	275.1	282.9
117.5°	27.1	69.8	197.6	244.1	248.0
120°	27.1	58.1	170.5	217.0	220.9
122.5°	27.1	46.5	151.1	193.8	197.6
125°	27.1	38.8	131.8	170.5	174.4
127.5°	23.3	27.1	112.4	151.1	155.0
130°	23.3	23.3	93.0	131.8	139.5
132.5°	23.3	23.3	77.5	116.3	124.0
135°	23.3	23.3	62.0	104.6	108.5
137.5°	23.3	23.3	50.4	89.1	96.9
140°	23.3	23.3	38.8	77.5	81.4
142.5°	27.1	23.3	34.9	65.9	69.8
145°	31.0	23.3	27.1	50.4	58.1
147.5°	31.0	27.1	27.1	42.6	46.5
150°	31.0	31.0	23.3	31.0	38.8
152.5°	31.0	31.0	23.3	23.3	31.0
155°	31.0	31.0	23.3	23.3	23.3
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°	19.4	120.1	325.5	391.4	399.2
110°	19.4	104.6	286.8	348.8	356.5



(END OF REPORT)