

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: P830287

Luminaire Tested: **OHBL-30SE-NL-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830287
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-30SE-NL-UNV-L830-CD
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

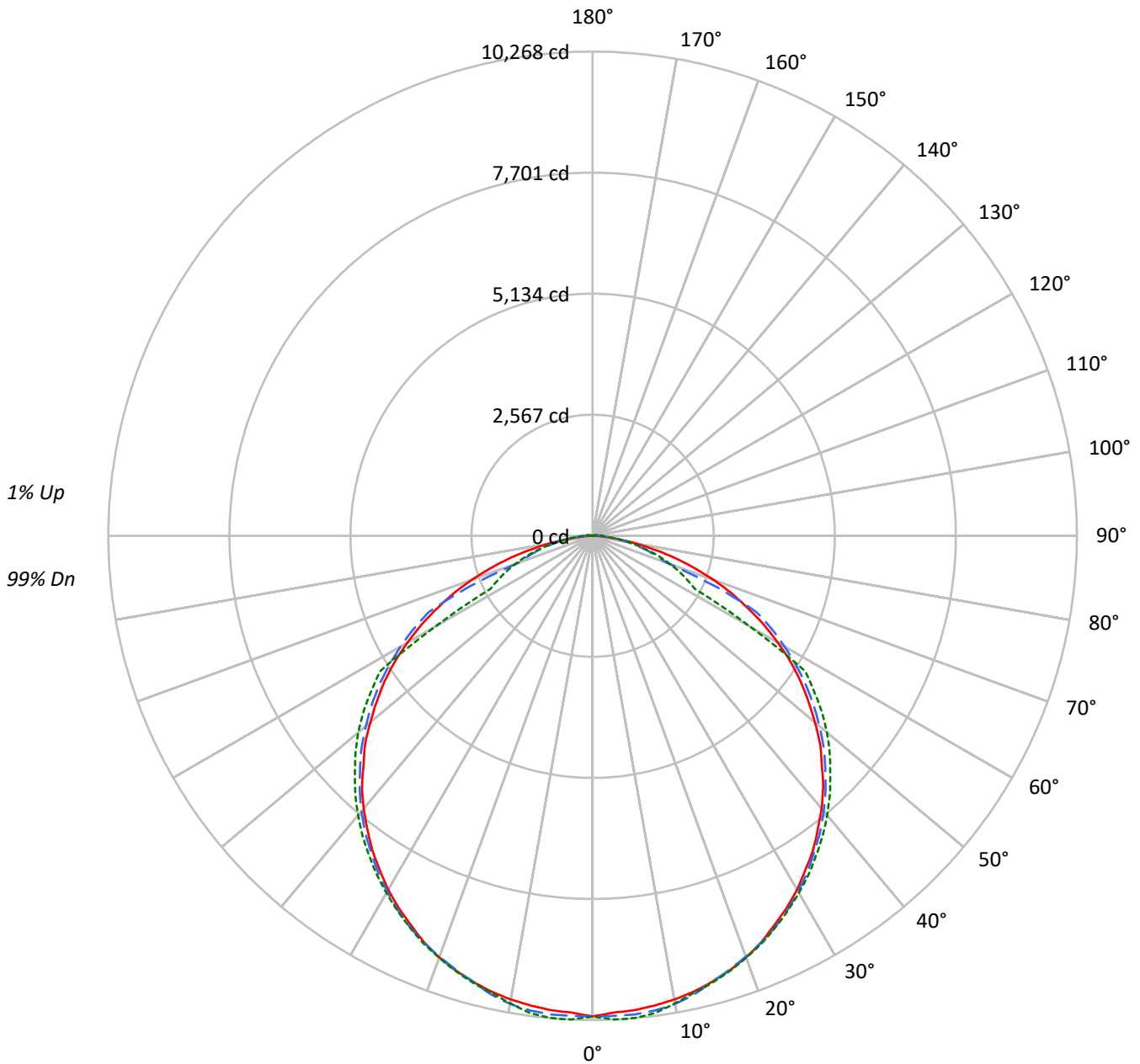
Lumens per Lamp: N/A
Luminaire Lumens: 28618.0 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 174
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

TEST NUMBER: P830287

CATALOG NUMBER: OHBL-30SE-NL-UNV-L830-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830287

CATALOG NUMBER: OHBL-30SE-NL-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	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°	17410	17410	17410
5°	17313	17470	17602
10°	17318	17483	17461
15°	17315	17312	17350
20°	17292	17265	17308
25°	17173	17261	17274
30°	17094	17182	17249
35°	16983	17076	17236
40°	16837	16996	17247
45°	16594	16844	17212
50°	16344	16677	17228
55°	16031	16446	17038
60°	15494	16044	13264
65°	14659	15511	8927
70°	13558	8234	8664
75°	11826	7825	8273
80°	9094	7178	7583
85°	4590	7255	7429



TEST NUMBER: P830287

CATALOG NUMBER: OHBL-30SE-NL-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	968.4	3.4
10°-20°	2772.7	9.7
20°-30°	4218.9	14.7
30°-40°	5129.6	17.9
40°-50°	5393.6	18.8
50°-60°	4925.0	17.2
60°-70°	3157.1	11.0
70°-80°	1491.4	5.2
80°-90°	413.5	1.4
90°-100°	109.5	0.4
100°-110°	30.0	0.1
110°-120°	8.3	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°	7960.0	27.8
0°-40°	13089.6	45.7
0°-60°	23408.1	81.8
0°-90°	28470.2	99.5
90°-120°	147.8	0.5
90°-150°	147.8	0.5
90°-180°	148.0	0.5
0°-180°	28618.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	10193	10193	10193	10193	10193	
5°	10098	10138	10189	10245	10266	960
15°	9792	9866	9791	9805	9812	2765
25°	9113	9127	9159	9174	9166	4205
35°	8145	8097	8190	8290	8267	5090
45°	6870	6857	6974	7138	7126	5310
55°	5384	5342	5523	5707	5722	4801
65°	3627	3627	3838	2202	2209	3596
75°	1792	1826	1186	1248	1254	1889
85°	234	297	370	401	379	346
90°	0	100	165	195	191	10
95°	5	52	118	159	159	3
105°	9	20	29	29	27	9
115°	9	12	18	12	2	6
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



TEST NUMBER: P830287

CATALOG NUMBER: OHBL-30SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	10193.0	10193.0	10193.0	10193.0	10193.0
2.5°	10121.4	10155.5	10193.0	10241.3	10268.0
5°	10098.1	10137.5	10189.4	10244.9	10266.3
7.5°	10048.1	10103.4	10153.6	10193.0	10205.5
10°	9985.5	10051.7	10080.3	10076.7	10067.8
12.5°	9901.4	9971.3	9962.4	9921.1	9928.3
15°	9792.3	9865.6	9790.6	9804.8	9812.0
17.5°	9663.5	9735.1	9647.5	9676.0	9677.9
20°	9513.4	9567.0	9499.0	9522.3	9522.3
22.5°	9332.7	9370.2	9341.6	9357.7	9361.3
25°	9112.7	9126.9	9159.1	9173.5	9166.3
27.5°	8901.8	8883.8	8946.4	8980.3	8962.4
30°	8667.3	8638.7	8712.0	8767.5	8746.1
32.5°	8399.0	8381.2	8465.3	8531.4	8518.9
35°	8145.1	8096.8	8189.8	8289.9	8266.6
37.5°	7844.6	7816.0	7921.4	8027.1	8014.6
40°	7551.3	7503.0	7622.8	7748.0	7735.5
42.5°	7236.5	7179.2	7309.8	7460.2	7445.8
45°	6869.7	6857.3	6973.5	7138.1	7125.6
47.5°	6544.4	6481.8	6644.4	6803.7	6818.1
50°	6150.8	6127.7	6276.1	6469.3	6483.5
52.5°	5766.4	5750.3	5905.7	6100.8	6125.8
55°	5383.5	5342.4	5523.0	5707.3	5721.7
57.5°	4974.1	4931.1	5115.3	5315.7	5346.0
60°	4535.7	4494.6	4696.7	4882.8	3883.0
62.5°	4097.5	4068.9	4280.1	3031.6	2443.3
65°	3627.2	3627.2	3838.1	2201.7	2208.9
67.5°	3187.3	3158.7	2861.8	1978.0	1978.0
70°	2715.0	2725.8	1648.9	1733.2	1734.9
72.5°	2241.1	2280.4	1423.8	1491.6	1495.2
75°	1792.1	1826.2	1185.8	1248.4	1253.7
77.5°	1316.4	1012.3	953.2	1001.7	1003.4
80°	924.6	638.5	729.8	776.2	770.9
82.5°	540.1	447.1	534.7	568.8	566.9
85°	234.2	296.9	370.2	400.7	379.1
87.5°	75.0	184.2	230.6	248.6	246.7
90°	0.0	100.2	164.6	194.9	191.4
92.5°	0.0	78.6	143.2	178.9	180.6
95°	5.3	51.9	118.2	159.3	159.3
97.5°	3.6	37.5	84.1	125.2	128.8
100°	3.6	30.3	55.5	89.4	91.3
102.5°	8.9	25.0	33.9	57.2	59.1
105°	8.9	19.7	28.6	28.6	26.9



TEST NUMBER: P830287

CATALOG NUMBER: OHBL-30SE-NL-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.8	14.4	19.7	14.4	1.7
115°	8.9	12.5	17.8	12.5	1.7
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°	8.9	17.8	25.0	16.1	5.3
110°	10.8	16.1	21.4	14.4	1.7



(END OF REPORT)