

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: P830206

Luminaire Tested: **OHBL-30HE-N-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830206
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-30HE-N-UNV-L850-CD
Description: 30000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

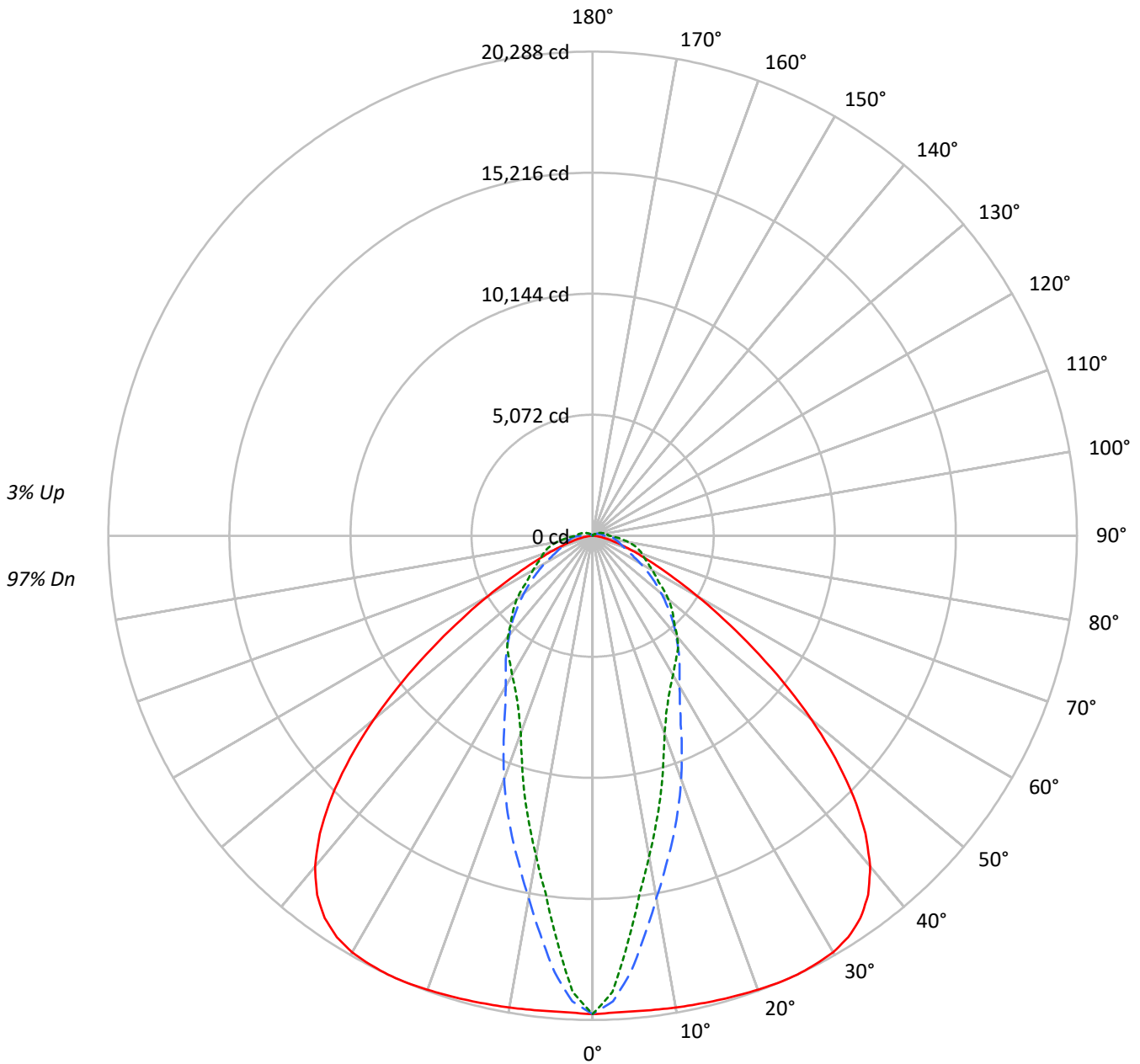
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29580.0 lumens
Efficiency: N/A
Efficacy: 180.6 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): 163.8
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

TEST NUMBER: P830206
CATALOG NUMBER: OHBL-30HE-N-UNV-L850-CD

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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31696	31696	31696
5°	31631	28878	26854
10°	31988	24336	21547
15°	32613	20823	17697
20°	33529	17615	14323
25°	34689	14587	12559
30°	35888	12573	11675
35°	36635	11465	11133
40°	36008	10363	10571
45°	33126	9372	9797
50°	27948	8286	9205
55°	21236	7265	8203
60°	14882	6238	7866
65°	10010	5380	7718
70°	6837	5060	8121
75°	4744	5234	8714
80°	3266	5824	9032
85°	1910	7350	9601



TEST NUMBER: P830206

CATALOG NUMBER: OHBL-30HE-N-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1687.1	5.7
10°-20°	3968.8	13.4
20°-30°	4974.9	16.8
30°-40°	5278.9	17.8
40°-50°	4773.0	16.1
50°-60°	3460.7	11.7
60°-70°	2171.8	7.3
70°-80°	1437.2	4.9
80°-90°	828.0	2.8
90°-100°	401.1	1.4
100°-110°	276.9	0.9
110°-120°	170.8	0.6
120°-130°	82.7	0.3
130°-140°	38.1	0.1
140°-150°	20.8	0.1
150°-160°	9.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	10630.9	35.9
0°-40°	15909.8	53.8
0°-60°	24143.5	81.6
0°-90°	28580.5	96.6
90°-120°	848.8	2.9
90°-150°	990.4	3.3
90°-180°	999.0	3.4
0°-180°	29580.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	20042	20042	20042	20042	20042	
5°	20002	19489	18344	17494	17053	###
15°	20155	16427	13047	11603	11077	5716
25°	20288	12702	8736	7754	7508	9373
35°	19561	8444	6340	6142	6140	12160
45°	15464	5349	4595	4706	4786	11780
55°	8187	3315	2999	3252	3369	7397
65°	2928	1923	1736	2224	2472	3047
75°	904	1036	1166	1810	1919	1008
85°	158	429	853	1186	1089	190
90°	0	179	494	696	702	10
95°	8	126	435	591	618	7
105°	15	84	317	420	431	15
115°	21	59	214	267	273	21
125°	23	30	109	137	135	20
135°	19	23	48	74	74	15
145°	23	25	29	44	42	14
155°	23	29	30	32	29	7
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-30HE-N-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	20042.0	20042.0	20042.0	20042.0	20042.0
2.5°	20000.1	19885.6	19528.9	19311.5	19128.3
5°	20002.0	19488.9	18344.4	17493.6	17053.0
7.5°	20030.6	18889.9	16827.9	15586.1	15101.6
10°	20074.5	18147.9	15412.5	14088.7	13636.7
12.5°	20106.9	17312.4	14166.9	12806.9	12311.0
15°	20154.6	16427.3	13047.3	11603.3	11076.8
17.5°	20198.4	15593.8	11940.9	10432.1	9846.5
20°	20242.3	14695.3	10834.6	9280.0	8797.4
22.5°	20284.3	13747.3	9754.9	8385.3	8055.3
25°	20288.1	12702.0	8736.3	7754.0	7507.9
27.5°	20238.5	11618.5	7910.4	7225.6	7073.0
30°	20152.7	10567.5	7269.5	6844.1	6735.4
32.5°	19939.0	9495.5	6773.5	6475.9	6413.0
35°	19561.3	8444.5	6340.5	6142.1	6140.2
37.5°	18966.2	7511.7	5871.3	5836.9	5878.9
40°	18086.8	6695.3	5426.8	5518.4	5518.4
42.5°	16913.7	5985.7	5024.3	5117.8	5093.0
45°	15464.0	5348.6	4595.2	4705.8	4785.9
47.5°	13783.5	4787.8	4156.4	4370.1	4480.7
50°	11956.2	4253.7	3755.9	4028.6	4154.5
52.5°	10041.0	3759.7	3364.8	3677.6	3778.7
55°	8187.0	3315.2	2998.6	3252.3	3368.6
57.5°	6508.4	2891.8	2640.0	2880.3	3120.7
60°	5064.4	2527.4	2302.3	2645.7	2886.0
62.5°	3868.4	2203.2	1985.7	2426.3	2666.7
65°	2928.0	1922.8	1735.8	2224.1	2472.1
67.5°	2207.0	1680.5	1541.3	2077.3	2319.5
70°	1657.6	1445.9	1384.8	1985.7	2203.2
72.5°	1224.6	1230.3	1260.9	1905.6	2071.5
75°	904.2	1035.8	1165.5	1810.2	1918.9
77.5°	646.6	858.4	1079.6	1695.8	1733.9
80°	448.3	700.0	990.0	1545.1	1512.6
82.5°	280.4	560.8	909.9	1379.1	1289.5
85°	158.3	429.2	852.6	1186.5	1089.2
87.5°	70.6	320.5	745.8	925.1	864.1
90°	0.0	179.3	494.0	696.2	702.0
92.5°	3.8	148.8	455.9	637.1	656.2
95°	7.6	125.9	434.9	591.3	618.0
97.5°	9.5	110.6	408.2	549.4	572.2
100°	11.4	99.2	375.8	505.5	524.6
102.5°	13.4	91.6	345.3	459.7	475.0
105°	15.3	83.9	316.6	419.6	431.1



TEST NUMBER: P830206

CATALOG NUMBER: OHBL-30HE-N-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.1	64.9	238.4	301.4	310.9
115°	21.0	59.1	213.6	267.0	272.8
117.5°	22.9	51.5	186.9	234.6	236.5
120°	22.9	45.8	160.2	200.3	200.3
122.5°	22.9	38.1	133.5	166.0	164.0
125°	22.9	30.5	108.7	137.3	135.4
127.5°	21.0	24.8	87.7	114.4	112.5
130°	21.0	24.8	70.6	97.3	97.3
132.5°	19.1	22.9	57.2	83.9	83.9
135°	19.1	22.9	47.7	74.4	74.4
137.5°	19.1	24.8	40.1	64.9	64.9
140°	19.1	22.9	34.3	57.2	57.2
142.5°	21.0	22.9	30.5	49.6	49.6
145°	22.9	24.8	28.6	43.9	42.0
147.5°	22.9	26.7	28.6	38.1	36.2
150°	22.9	28.6	28.6	34.3	32.4
152.5°	22.9	28.6	28.6	32.4	30.5
155°	22.9	28.6	30.5	32.4	28.6
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°	15.3	78.2	289.9	375.8	389.1
110°	17.2	70.6	265.1	335.7	349.1



(END OF REPORT)