

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: P829413

Luminaire Tested: **OHB-30SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829413
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: OHB-30SE-N-UNV-L840-CD
Description: 30000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

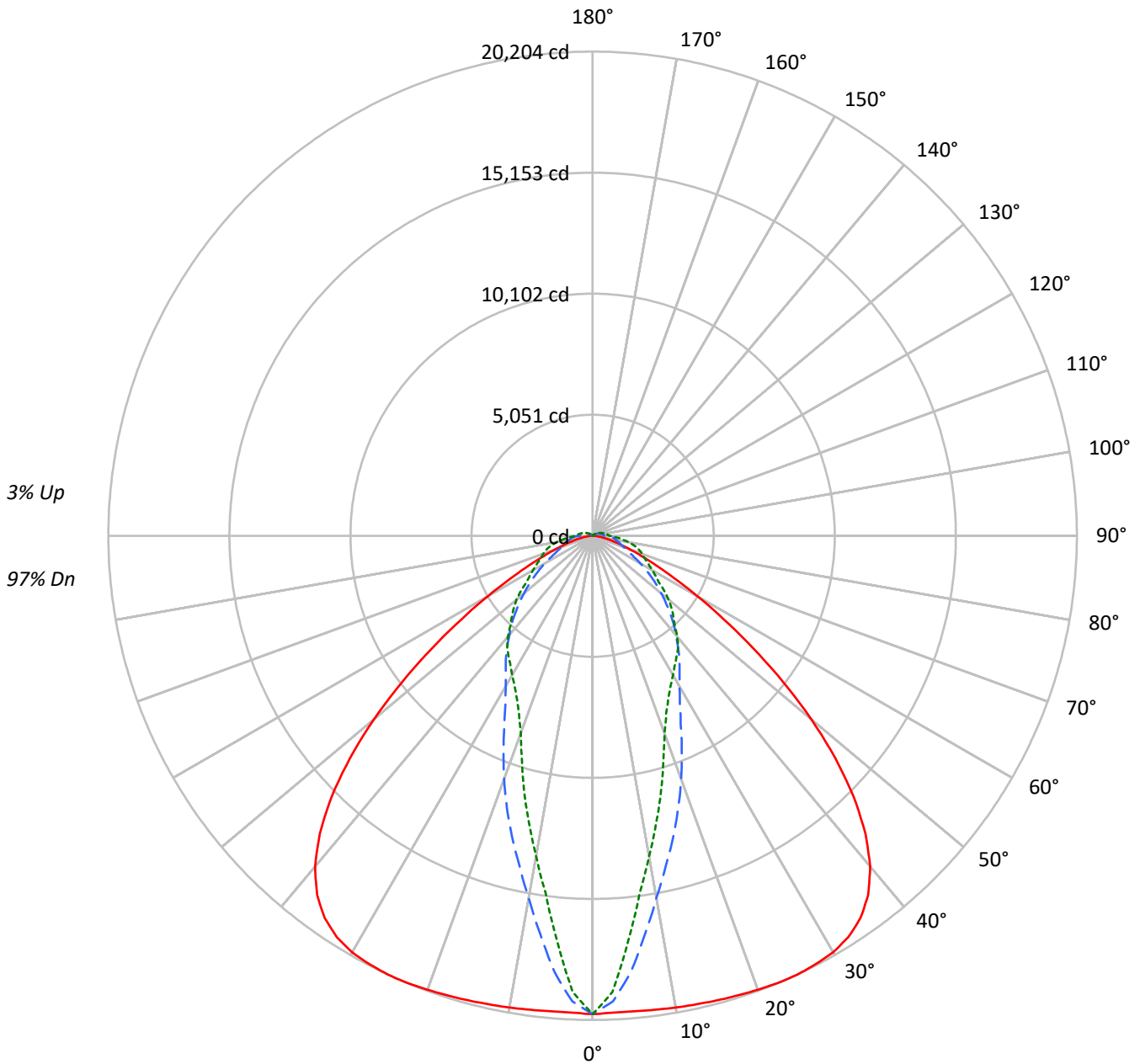
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29457.0 lumens
Efficiency: N/A
Efficacy: 162.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 1.93' x H: 0.17')
CIE Type: Direct

Input Watts (W): 181
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									
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°	66672	66672	66672
5°	66293	60560	56452
10°	66795	50881	45266
15°	67845	43403	37153
20°	69480	36601	30050
25°	71590	30212	26330
30°	73741	25951	24460
35°	74917	23575	23304
40°	73245	21222	22109
45°	66976	19102	20468
50°	56111	16801	19211
55°	42277	14638	17095
60°	29316	12473	16366
65°	19451	10654	16022
70°	13035	9891	16810
75°	8792	10043	17961
80°	5767	10857	18490
85°	3044	12990	19396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1680.1	5.7
10°-20°	3952.3	13.4
20°-30°	4954.2	16.8
30°-40°	5257.0	17.8
40°-50°	4753.1	16.1
50°-60°	3446.3	11.7
60°-70°	2162.7	7.3
70°-80°	1431.2	4.9
80°-90°	824.5	2.8
90°-100°	399.5	1.4
100°-110°	275.7	0.9
110°-120°	170.1	0.6
120°-130°	82.4	0.3
130°-140°	37.9	0.1
140°-150°	20.7	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°	10586.7	35.9
0°-40°	15843.6	53.8
0°-60°	24043.1	81.6
0°-90°	28461.6	96.6
90°-120°	845.3	2.9
90°-150°	986.4	3.3
90°-180°	995.0	3.4
0°-180°	29457.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	19959	19959	19959	19959	19959	
5°	19919	19408	18268	17421	16982	###
15°	20071	16359	12993	11555	11031	5692
25°	20204	12649	8700	7722	7477	9334
35°	19480	8409	6314	6117	6115	12110
45°	15400	5326	4576	4686	4766	11731
55°	8153	3301	2986	3239	3355	7366
65°	2916	1915	1729	2215	2462	3034
75°	900	1032	1161	1803	1911	1004
85°	158	427	849	1182	1085	189
90°	0	179	492	693	699	10
95°	8	125	433	589	616	7
105°	15	84	315	418	429	15
115°	21	59	213	266	272	20
125°	23	30	108	137	135	20
135°	19	23	48	74	74	15
145°	23	25	28	44	42	14
155°	23	28	30	32	28	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: OHB-30SE-N-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	19958.7	19958.7	19958.7	19958.7	19958.7
2.5°	19916.9	19802.9	19447.7	19231.2	19048.8
5°	19918.8	19407.8	18268.1	17420.9	16982.1
7.5°	19947.3	18811.4	16757.9	15521.3	15038.8
10°	19991.0	18072.4	15348.5	14030.2	13580.0
12.5°	20023.3	17240.4	14108.0	12753.7	12259.8
15°	20070.8	16359.0	12993.0	11555.0	11030.8
17.5°	20114.5	15528.9	11891.3	10388.7	9805.5
20°	20158.1	14634.2	10789.5	9241.4	8760.8
22.5°	20199.9	13690.1	9714.4	8350.5	8021.8
25°	20203.7	12649.2	8700.0	7721.7	7476.7
27.5°	20154.3	11570.2	7877.5	7195.5	7043.6
30°	20068.9	10523.6	7239.2	6815.6	6707.4
32.5°	19856.1	9456.0	6745.3	6449.0	6386.3
35°	19480.0	8409.4	6314.1	6116.6	6114.7
37.5°	18887.3	7480.5	5846.8	5812.7	5854.4
40°	18011.6	6667.5	5404.3	5495.4	5495.4
42.5°	16843.4	5960.8	5003.4	5096.5	5071.8
45°	15399.7	5326.4	4576.0	4686.2	4766.0
47.5°	13726.2	4767.9	4139.1	4351.9	4462.1
50°	11906.4	4236.0	3740.2	4011.9	4137.2
52.5°	9999.3	3744.0	3350.8	3662.4	3763.0
55°	8152.9	3301.4	2986.1	3238.8	3354.6
57.5°	6481.3	2879.7	2629.0	2868.3	3107.7
60°	5043.3	2516.9	2292.8	2634.7	2874.0
62.5°	3852.3	2194.0	1977.4	2416.2	2655.6
65°	2915.8	1914.8	1728.6	2214.9	2461.8
67.5°	2197.8	1673.5	1534.8	2068.6	2309.9
70°	1650.7	1439.9	1379.1	1977.4	2194.0
72.5°	1219.5	1225.2	1255.6	1897.7	2062.9
75°	900.4	1031.5	1160.6	1802.7	1911.0
77.5°	644.0	854.8	1075.2	1688.7	1726.7
80°	446.4	697.1	985.9	1538.6	1506.4
82.5°	279.2	558.5	906.1	1373.4	1284.1
85°	157.7	427.4	849.1	1181.5	1084.6
87.5°	70.3	319.1	742.7	921.3	860.5
90°	0.0	178.6	492.0	693.3	699.0
92.5°	3.8	148.2	454.0	634.5	653.4
95°	7.6	125.4	433.1	588.9	615.5
97.5°	9.5	110.2	406.5	547.1	569.9
100°	11.4	98.8	374.2	503.4	522.4
102.5°	13.3	91.2	343.8	457.8	473.0
105°	15.2	83.6	315.3	417.9	429.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.0	64.6	237.4	300.1	309.6
115°	20.9	58.9	212.8	265.9	271.6
117.5°	22.8	51.3	186.2	233.6	235.5
120°	22.8	45.6	159.6	199.5	199.5
122.5°	22.8	38.0	133.0	165.3	163.4
125°	22.8	30.4	108.3	136.8	134.9
127.5°	20.9	24.7	87.4	114.0	112.1
130°	20.9	24.7	70.3	96.9	96.9
132.5°	19.0	22.8	57.0	83.6	83.6
135°	19.0	22.8	47.5	74.1	74.1
137.5°	19.0	24.7	39.9	64.6	64.6
140°	19.0	22.8	34.2	57.0	57.0
142.5°	20.9	22.8	30.4	49.4	49.4
145°	22.8	24.7	28.5	43.7	41.8
147.5°	22.8	26.6	28.5	38.0	36.1
150°	22.8	28.5	28.5	34.2	32.3
152.5°	22.8	28.5	28.5	32.3	30.4
155°	22.8	28.5	30.4	32.3	28.5
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°	15.2	77.9	288.7	374.2	387.5
110°	17.1	70.3	264.0	334.3	347.6



(END OF REPORT)