

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: P827041

Luminaire Tested: **OHB-30SE-W-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827041
REPORT IS A COMBINATION OF REPORTS P826106 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHB-30SE-W-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHB SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

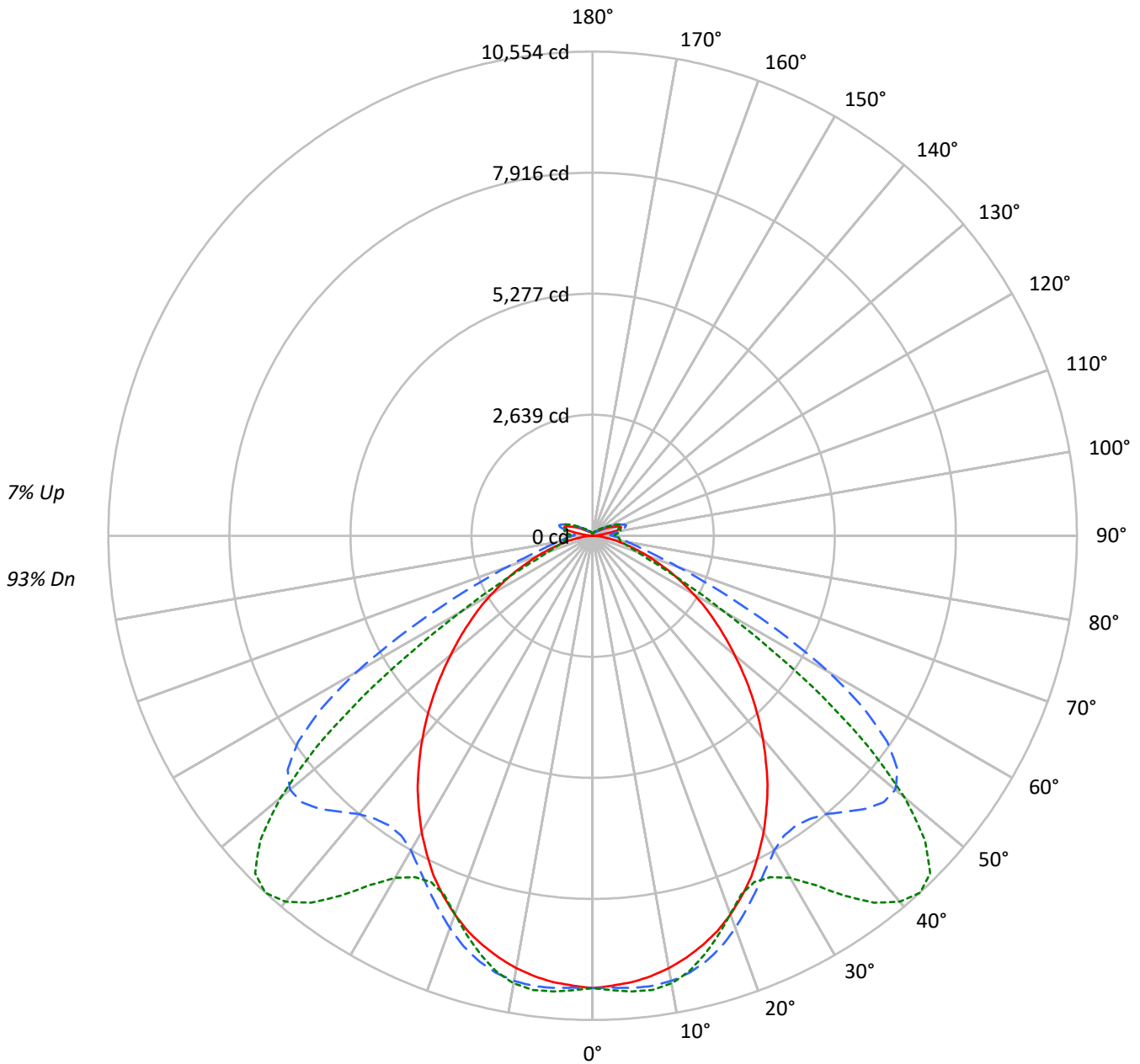
Lumens per Lamp: N/A
Luminaire Lumens: 31037.2 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.93' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 191.3
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	96	96	96	93																			
1	108	103	99	95	104	100	96	93	95	92	89	90	87	85	85	83	81	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	86	77	70	64	73	67	62	70	64	60	66	62	58	56																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	48																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	48	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	41	36	47	40	35	45	39	34	43	38	33	31																			
8	59	46	38	32	58	45	37	32	43	36	31	41	35	30	40	34	30	28																			
9	55	42	34	28	54	41	34	28	40	33	28	38	32	27	37	31	27	25																			
10	52	39	31	26	50	38	30	25	37	30	25	35	29	25	34	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32933	32933	32933
5°	32467	32801	33186
10°	31904	32667	33103
15°	31127	32044	31922
20°	30123	30860	30241
25°	28838	29448	29514
30°	27186	28379	31621
35°	25332	28812	36826
40°	23215	31095	42347
45°	21018	35134	45245
50°	18746	38675	41809
55°	16606	38422	31676
60°	14437	32295	19164
65°	12168	22116	11451
70°	9647	14141	8112
75°	7076	9976	7311
80°	4777	8549	7859
85°	2852	8981	11210



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.1	3.0
10°-20°	2667.7	8.6
20°-30°	3903.7	12.6
30°-40°	5069.8	16.3
40°-50°	6190.9	19.9
50°-60°	5452.0	17.6
60°-70°	2841.1	9.2
70°-80°	1218.3	3.9
80°-90°	588.9	1.9
90°-100°	420.5	1.4
100°-110°	675.4	2.2
110°-120°	534.6	1.7
120°-130°	263.0	0.8
130°-140°	131.6	0.4
140°-150°	73.6	0.2
150°-160°	39.9	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	7513.5	24.2
0°-40°	12583.4	40.5
0°-60°	24226.3	78.1
0°-90°	28874.7	93.0
90°-120°	1630.6	5.3
90°-150°	2098.8	6.8
90°-180°	2163.0	7.0
0°-180°	31037.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9858	9858	9858	9858	9858	
5°	9767	9842	9895	9982	9971	926
15°	9242	9501	9593	9520	9444	2602
25°	8189	8627	8480	8321	8329	3758
35°	6647	7349	7717	8999	9576	4143
45°	4894	6158	8416	10190	10403	3774
55°	3258	5394	7838	6872	6109	2924
65°	1870	3737	3588	1995	1716	1850
75°	753	1748	1153	789	749	821
85°	160	623	587	574	581	178
90°	5	248	416	480	496	13
95°	32	204	415	504	537	103
105°	642	698	732	616	590	608
115°	449	478	563	589	584	453
125°	226	244	301	321	322	212
135°	138	142	166	191	195	109
145°	108	106	110	125	129	68
155°	90	91	89	89	90	39
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9858.5	9858.5	9858.5	9858.5	9858.5
2.5°	9815.9	9858.5	9860.6	9920.2	9913.8
5°	9767.0	9841.5	9894.6	9981.8	9971.2
7.5°	9686.2	9803.2	9896.8	9992.5	9984.0
10°	9571.3	9730.9	9854.2	9932.9	9907.4
12.5°	9422.4	9633.0	9754.3	9771.3	9722.3
15°	9241.7	9501.1	9592.6	9520.3	9443.7
17.5°	9037.5	9341.6	9373.5	9216.1	9120.4
20°	8782.2	9128.9	9097.0	8880.1	8773.7
22.5°	8499.3	8895.0	8792.9	8565.3	8463.2
25°	8188.8	8627.0	8480.2	8320.7	8329.2
27.5°	7825.1	8322.8	8180.3	8252.6	8388.7
30°	7455.0	8003.8	7916.6	8337.7	8605.7
32.5°	7048.8	7676.2	7754.9	8586.5	9024.7
35°	6646.8	7348.7	7716.6	8999.2	9575.6
37.5°	6202.2	7016.9	7778.3	9475.6	10079.7
40°	5770.5	6693.6	7918.7	9903.1	10413.6
42.5°	5330.2	6404.3	8154.8	10156.2	10554.0
45°	4894.1	6157.6	8416.4	10190.3	10403.0
47.5°	4458.1	5949.1	8597.2	9920.2	9822.3
50°	4037.0	5764.1	8609.9	9271.4	8871.6
52.5°	3643.5	5593.9	8376.0	8237.7	7616.7
55°	3258.5	5394.0	7837.9	6872.2	6108.6
57.5°	2907.6	5117.5	7008.3	5404.6	4570.8
60°	2535.3	4743.1	5936.4	3954.0	3296.8
62.5°	2192.9	4277.3	4734.6	2752.3	2369.4
65°	1869.6	3737.1	3588.2	1995.1	1716.5
67.5°	1527.2	3177.7	2648.1	1454.8	1276.2
70°	1259.2	2658.7	1971.7	1131.5	1027.3
72.5°	984.8	2165.2	1474.0	918.8	861.4
75°	752.9	1748.4	1152.8	789.1	748.7
77.5°	555.1	1382.5	927.4	697.6	659.4
80°	389.2	1089.0	776.3	623.2	608.3
82.5°	261.6	842.3	661.5	593.4	595.5
85°	159.5	623.2	587.0	574.3	580.7
87.5°	76.6	442.4	504.1	523.2	529.6
90°	5.1	247.5	416.1	480.4	496.0
92.5°	10.0	200.3	386.3	459.6	480.2
95°	32.3	203.9	415.4	503.6	537.2
97.5°	170.3	295.5	480.5	566.8	591.2
100°	343.4	457.6	545.7	613.9	627.3
102.5°	548.4	607.0	608.2	616.0	614.3
105°	641.5	698.4	731.9	616.3	589.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	521.8	567.0	647.4	659.2	645.4
115°	448.8	478.5	563.4	589.0	584.3
117.5°	388.9	410.3	484.5	508.0	508.1
120°	326.9	347.9	410.6	434.1	435.2
122.5°	272.9	291.5	354.0	374.3	375.5
125°	225.9	244.3	301.3	320.6	321.7
127.5°	192.8	201.9	256.7	278.0	278.1
130°	168.8	173.8	218.0	240.3	244.6
132.5°	151.8	155.8	190.5	212.8	218.1
135°	137.8	141.8	166.0	191.4	194.6
137.5°	127.8	129.8	148.7	170.9	176.2
140°	117.8	120.8	132.3	154.5	157.7
142.5°	112.9	112.8	121.1	140.2	142.3
145°	108.0	105.8	109.9	124.7	128.9
147.5°	103.0	102.9	104.9	113.4	116.5
150°	98.0	100.0	96.8	102.0	106.3
152.5°	94.0	95.0	92.8	92.8	98.0
155°	90.0	91.0	88.8	88.8	89.8
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	643.6	699.9	765.7	666.8	598.1
110°	594.6	646.4	720.4	703.4	645.7



(END OF REPORT)