

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: P827179

Luminaire Tested: **OHBL-30SE-MFL-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827179
REPORT IS A COMBINATION OF REPORTS P826127 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: OHBL-30SE-MFL-UNV-L840-CD-UPL15
Description: 30000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

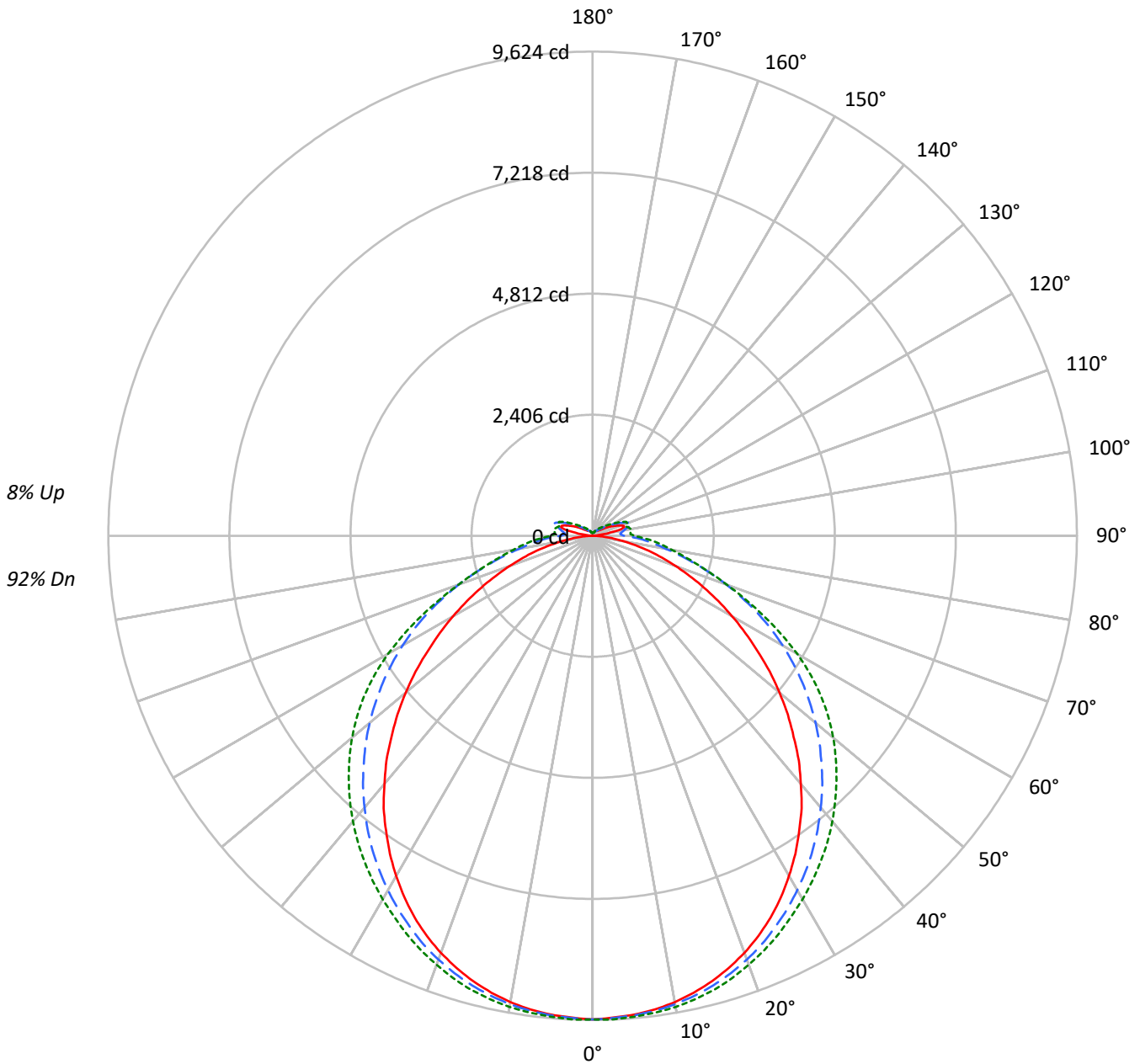
Lumens per Lamp: N/A
Luminaire Lumens: 30293.2 lumens
Efficiency: N/A
Efficacy: 164.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 184.3
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	113	113	113	113	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	82	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	80	68	60	53	78	67	58	52	63	56	50	60	54	49	57	52	47	45																			
5	74	61	52	45	71	59	51	45	56	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	36	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	40	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	30	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16421	16421	16421
5°	16237	16258	16384
10°	16045	16108	16368
15°	15787	15929	16325
20°	15471	15712	16231
25°	15074	15443	16137
30°	14557	15151	16047
35°	13948	14842	15986
40°	13233	14485	15936
45°	12405	14097	15857
50°	11508	13704	15753
55°	10429	13224	15510
60°	9324	12660	14898
65°	8128	11940	13797
70°	6839	11025	12619
75°	5529	9967	12001
80°	3943	9182	12572
85°	2194	9458	15759



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.0	3.0
10°-20°	2613.6	8.6
20°-30°	3952.5	13.0
30°-40°	4745.1	15.7
40°-50°	4900.9	16.2
50°-60°	4409.3	14.6
60°-70°	3321.4	11.0
70°-80°	2005.6	6.6
80°-90°	984.7	3.3
90°-100°	558.5	1.8
100°-110°	740.3	2.4
110°-120°	571.9	1.9
120°-130°	286.3	0.9
130°-140°	145.2	0.5
140°-150°	80.4	0.3
150°-160°	42.7	0.1
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	7477.1	24.7
0°-40°	12222.1	40.3
0°-60°	21532.3	71.1
0°-90°	27844.0	91.9
90°-120°	1870.7	6.2
90°-150°	2382.7	7.9
90°-180°	2449.0	8.1
0°-180°	30293.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9614	9614	9614	9614	9614	
5°	9553	9579	9567	9605	9593	908
15°	9167	9212	9254	9332	9341	2585
25°	8372	8464	8584	8718	8739	3851
35°	7158	7325	7626	7857	7904	4475
45°	5650	5934	6431	6781	6854	4362
55°	4002	4417	5087	5471	5537	3589
65°	2442	2941	3600	3779	3736	2427
75°	1151	1652	2085	2139	2118	1227
85°	240	633	1045	1188	1209	277
90°	3	269	627	791	826	17
95°	40	239	554	711	756	110
105°	650	720	791	715	698	616
115°	455	490	600	652	652	459
125°	230	249	326	366	372	216
135°	142	150	181	219	229	112
145°	114	114	118	139	146	72
155°	96	100	100	97	100	41
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°	9614.3	9614.3	9614.3	9614.3	9614.3
2.5°	9586.1	9609.6	9595.5	9626.1	9623.7
5°	9553.1	9579.0	9567.2	9604.9	9593.1
7.5°	9496.7	9524.9	9522.5	9564.9	9560.2
10°	9414.3	9444.9	9454.3	9510.8	9510.8
12.5°	9301.4	9341.4	9364.9	9433.1	9435.5
15°	9167.2	9211.9	9254.3	9332.0	9341.4
17.5°	9004.9	9061.4	9120.2	9209.6	9221.4
20°	8821.4	8884.9	8964.9	9059.0	9073.1
22.5°	8609.6	8684.9	8788.4	8899.0	8915.5
25°	8371.9	8463.7	8583.7	8717.8	8739.0
27.5°	8101.3	8207.2	8369.6	8520.2	8539.0
30°	7807.2	7931.9	8134.3	8313.1	8343.7
32.5°	7496.6	7640.2	7889.6	8089.6	8131.9
35°	7157.8	7324.9	7626.0	7856.6	7903.7
37.5°	6823.7	7007.2	7348.4	7611.9	7668.4
40°	6433.1	6661.3	7051.9	7343.7	7411.9
42.5°	6066.0	6313.1	6755.4	7073.1	7139.0
45°	5649.5	5934.2	6430.7	6781.3	6854.3
47.5°	5258.9	5567.2	6117.8	6480.1	6555.4
50°	4847.2	5186.0	5783.6	6162.5	6240.1
52.5°	4435.4	4800.1	5437.8	5830.7	5903.6
55°	4002.4	4416.6	5087.2	5470.7	5536.6
57.5°	3600.1	4037.7	4727.2	5091.9	5131.9
60°	3202.4	3656.5	4360.1	4680.1	4694.2
62.5°	2814.2	3291.8	3983.6	4237.7	4218.9
65°	2442.4	2941.2	3600.1	3778.9	3736.5
67.5°	2084.7	2600.1	3207.1	3322.4	3265.9
70°	1745.9	2268.3	2825.9	2884.8	2833.0
72.5°	1447.1	1953.0	2440.0	2489.5	2451.8
75°	1150.6	1651.8	2084.7	2138.9	2117.7
77.5°	873.0	1360.0	1757.7	1828.3	1833.0
80°	628.2	1094.1	1473.0	1583.6	1597.7
82.5°	414.1	849.4	1235.3	1376.5	1397.7
85°	240.0	633.0	1044.7	1188.3	1209.4
87.5°	103.5	456.5	840.0	969.4	995.3
90°	3.0	269.1	626.7	791.0	826.5
92.5°	17.1	232.7	559.0	718.1	754.0
95°	39.8	239.1	554.1	711.4	755.6
97.5°	180.1	328.2	592.2	731.5	770.7
100°	351.1	486.4	635.5	749.3	775.1
102.5°	556.1	632.2	681.1	729.2	739.7
105°	649.5	720.5	790.8	714.8	697.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	527.8	579.5	685.8	729.0	720.4
115°	454.8	490.1	600.0	652.1	652.5
117.5°	395.2	419.1	517.2	566.9	572.0
120°	333.2	356.0	441.7	486.8	495.2
122.5°	279.2	298.9	381.6	423.3	429.4
125°	229.8	248.9	325.5	365.8	371.9
127.5°	196.5	208.2	277.4	319.7	324.8
130°	172.5	179.8	237.6	278.6	285.6
132.5°	155.5	164.2	206.8	245.5	255.9
135°	141.5	150.2	181.4	218.7	229.1
137.5°	131.5	138.2	161.0	194.9	205.4
140°	123.8	129.2	143.9	173.2	183.6
142.5°	119.2	121.2	127.9	155.8	162.8
145°	114.5	114.2	118.5	139.4	146.4
147.5°	109.5	111.5	113.5	122.9	131.0
150°	104.5	108.9	107.5	110.9	117.9
152.5°	100.5	103.9	103.5	101.2	106.9
155°	96.5	99.9	99.5	97.2	100.5
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°	649.5	718.7	815.2	753.2	691.9
110°	600.5	664.3	765.4	780.2	730.0



(END OF REPORT)