

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: P828379

Luminaire Tested: **OHBL-30SE-MFL-UNV-L940-CD-UPL15**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P828379  
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-L940-CD-UPL15  
Description:  
Light Source: -  
Ballast/Driver: -

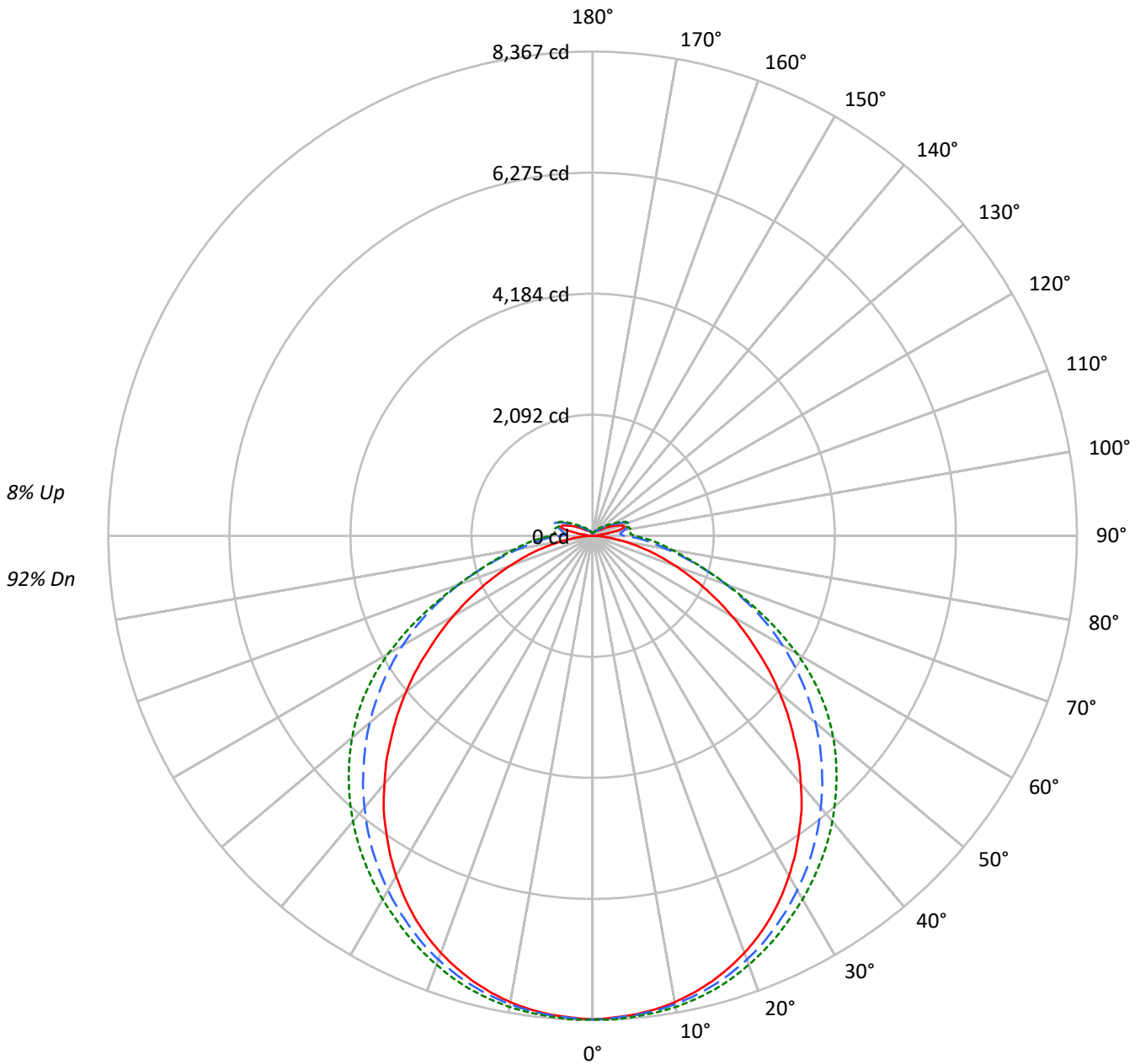
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26338.3 lumens  
Efficiency: N/A  
Efficacy: 142.9 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<sub>in</sub>): 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°	14277	14277	14277
5°	14117	14135	14245
10°	13950	14005	14231
15°	13726	13849	14194
20°	13451	13661	14112
25°	13106	13427	14031
30°	12656	13173	13952
35°	12127	12904	13899
40°	11505	12593	13856
45°	10786	12256	13787
50°	10006	11915	13697
55°	9067	11498	13485
60°	8107	11007	12953
65°	7066	10382	11995
70°	5947	9586	10971
75°	4807	8666	10434
80°	3428	7983	10930
85°	1908	8223	13702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	792.1	3.0
10°-20°	2272.3	8.6
20°-30°	3436.5	13.0
30°-40°	4125.6	15.7
40°-50°	4261.0	16.2
50°-60°	3833.6	14.6
60°-70°	2887.8	11.0
70°-80°	1743.7	6.6
80°-90°	856.2	3.3
90°-100°	485.6	1.8
100°-110°	643.6	2.4
110°-120°	497.3	1.9
120°-130°	248.9	0.9
130°-140°	126.3	0.5
140°-150°	69.9	0.3
150°-160°	37.1	0.1
160°-170°	15.9	0.1
170°-180°	4.8	0.0
0°-30°	6500.9	24.7
0°-40°	10626.5	40.3
0°-60°	18721.1	71.1
0°-90°	24208.8	91.9
90°-120°	1626.5	6.2
90°-150°	2071.7	7.9
90°-180°	2129.0	8.1
0°-180°	26338.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8359	8359	8359	8359	8359	
5°	8306	8328	8318	8351	8341	789
15°	7970	8009	8046	8114	8122	2247
25°	7279	7359	7463	7580	7598	3348
35°	6223	6369	6630	6831	6872	3890
45°	4912	5160	5591	5896	5959	3792
55°	3480	3840	4423	4756	4814	3120
65°	2124	2557	3130	3286	3249	2110
75°	1000	1436	1812	1860	1841	1067
85°	209	550	908	1033	1052	241
90°	3	234	545	688	719	15
95°	35	208	482	618	657	95
105°	565	626	688	622	607	535
115°	395	426	522	567	567	399
125°	200	216	283	318	323	188
135°	123	131	158	190	199	98
145°	100	99	103	121	127	63
155°	84	87	86	84	87	36
165°	55	55	56	56	56	16
175°	50	50	50	50	50	5
180°	50	50	50	50	50	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8359.1	8359.1	8359.1	<i>8359.1</i>	8359.1
2.5°	<i>8334.6</i>	<i>8355.0</i>	<i>8342.8</i>	<i>8369.4</i>	<i>8367.3</i>
5°	8305.9	8328.4	8318.1	<i>8350.9</i>	8340.7
7.5°	8256.9	8281.4	8279.3	<i>8316.1</i>	8312.1
10°	8185.2	8211.8	8220.0	<i>8269.1</i>	8269.1
12.5°	8087.1	8121.8	8142.3	<i>8201.6</i>	8203.6
15°	7970.4	8009.2	8046.1	<i>8113.7</i>	8121.8
17.5°	7829.3	7878.4	7929.5	<i>8007.2</i>	8017.5
20°	7669.7	7724.9	7794.5	<i>7876.3</i>	7888.6
22.5°	7485.6	7551.0	7641.0	<i>7737.2</i>	7751.5
25°	7278.9	7358.7	7463.1	<i>7579.6</i>	7598.1
27.5°	7043.6	7135.7	7276.9	<i>7407.8</i>	7424.2
30°	6787.9	6896.3	7072.3	<i>7227.8</i>	7254.4
32.5°	6517.9	6642.7	6859.6	<i>7033.5</i>	7070.2
35°	6223.3	6368.6	6630.4	<i>6830.9</i>	6871.8
37.5°	5932.8	6092.4	6389.0	<i>6618.1</i>	6667.2
40°	5593.2	5791.6	6131.2	<i>6384.9</i>	6444.2
42.5°	5274.0	5488.9	5873.4	<i>6149.7</i>	6207.0
45°	4911.9	5159.5	5591.1	<i>5896.0</i>	5959.4
47.5°	4572.3	4840.4	5319.1	<i>5634.1</i>	5699.6
50°	4214.4	4508.9	5028.5	<i>5358.0</i>	5425.4
52.5°	3856.3	4173.4	4727.9	<i>5069.5</i>	5132.9
55°	3479.9	3840.0	4423.0	<i>4756.5</i>	4813.8
57.5°	3130.1	3510.6	4110.0	<i>4427.1</i>	4461.9
60°	2784.3	3179.1	3790.9	<i>4069.1</i>	4081.3
62.5°	2446.8	2862.0	3463.5	<i>3684.4</i>	3668.1
65°	2123.5	2557.2	3130.1	<i>3285.5</i>	3248.7
67.5°	1812.5	2260.6	2788.4	<i>2888.6</i>	2839.5
70°	1518.0	1972.2	2457.0	<i>2508.2</i>	2463.1
72.5°	1258.2	1698.0	2121.4	<i>2164.5</i>	2131.7
75°	1000.4	1436.1	1812.5	<i>1859.7</i>	1841.2
77.5°	759.0	1182.4	1528.2	<i>1589.6</i>	1593.7
80°	546.2	951.3	1280.7	<i>1376.9</i>	1389.1
82.5°	360.0	738.5	1074.0	<i>1196.8</i>	1215.2
85°	208.7	550.4	908.3	<i>1033.2</i>	1051.5
87.5°	90.0	396.9	730.3	<i>842.8</i>	865.4
90°	2.6	234.0	544.9	<i>687.7</i>	718.6
92.5°	14.9	202.3	486.0	<i>624.3</i>	655.6
95°	34.6	207.9	481.8	<i>618.5</i>	657.0
97.5°	156.6	285.4	514.9	<i>636.0</i>	670.1
100°	305.3	422.9	552.5	<i>651.5</i>	673.9
102.5°	483.5	549.7	592.2	<i>634.0</i>	643.1
105°	564.7	626.4	687.6	<i>621.5</i>	606.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	458.9	503.8	596.3	633.8	626.3
115°	395.4	426.1	521.7	567.0	567.3
117.5°	343.6	364.4	449.7	492.9	497.3
120°	289.7	309.5	384.0	423.2	430.5
122.5°	242.7	259.9	331.8	368.0	373.3
125°	199.8	216.4	283.0	318.0	323.3
127.5°	170.8	181.0	241.2	278.0	282.4
130°	150.0	156.3	206.6	242.2	248.3
132.5°	135.2	142.8	179.8	213.4	222.5
135°	123.0	130.6	157.7	190.1	199.2
137.5°	114.3	120.2	140.0	169.5	178.6
140°	107.6	112.3	125.1	150.6	159.6
142.5°	103.6	105.4	111.2	135.5	141.5
145°	99.6	99.3	103.0	121.2	127.3
147.5°	95.2	96.9	98.7	106.9	113.9
150°	90.9	94.7	93.5	96.4	102.5
152.5°	87.4	90.3	90.0	88.0	92.9
155°	83.9	86.9	86.5	84.5	87.4
157.5°	60.9	61.7	62.6	63.5	63.5
160°	58.3	59.1	60.0	60.0	60.9
162.5°	56.5	57.4	57.4	58.3	58.3
165°	54.8	54.8	55.6	55.6	55.6
167.5°	53.0	53.0	53.9	53.9	54.8
170°	51.3	52.2	52.2	52.2	53.0
172.5°	50.4	50.4	51.3	51.3	51.3
175°	49.6	49.6	49.6	50.4	50.4
177.5°	48.7	49.6	49.6	49.6	49.6
180°	49.6	49.6	49.6	49.6	49.6



Report Generated By 670246072 / DESKTOP-50001EG







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







107.5°	564.7	624.9	708.8	654.9	601.6
110°	522.1	577.6	665.5	678.3	634.7



(END OF REPORT)