

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: P828356

Luminaire Tested: **OHBL-24SE-N-UNV-L940-CD-UPL36**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828356
REPORT IS A COMBINATION OF REPORTS P826308 AND G3-2310-221-2
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24SE-N-UNV-L940-CD-UPL36
Description:
Light Source: -
Ballast/Driver: -

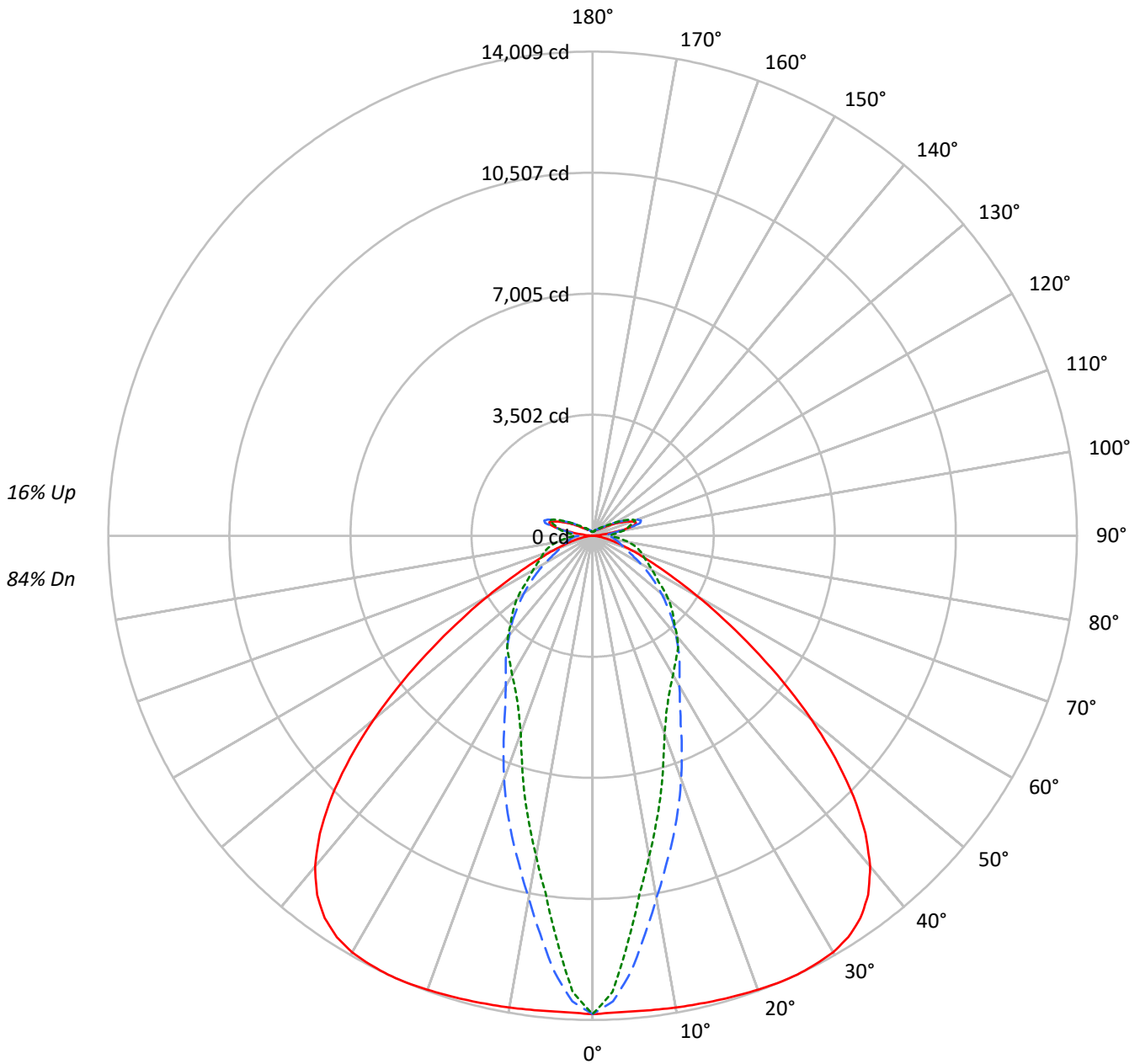
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23539.5 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 166.8
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

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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	115	115	115	115	111	111	111	111	102	102	102	94	94	94	87	87	87	84																			
1	106	101	97	94	102	98	94	91	90	88	85	84	82	80	78	76	75	72																			
2	97	90	84	79	93	87	81	76	81	76	72	75	71	68	70	67	64	62																			
3	90	80	73	67	86	77	71	65	72	67	62	67	63	59	63	59	56	54																			
4	83	72	64	58	79	70	62	57	65	59	54	61	56	52	57	53	50	47																			
5	77	65	57	51	74	63	56	50	59	53	48	56	50	46	52	48	44	42																			
6	71	59	51	45	68	57	50	44	54	48	43	51	45	41	48	43	40	37																			
7	66	54	46	41	64	53	45	40	50	43	39	47	41	37	44	40	36	34																			
8	62	50	42	37	60	48	41	36	46	39	35	43	38	34	41	36	33	31																			
9	58	46	38	33	56	45	38	33	43	36	32	40	35	31	38	34	30	28																			
10	55	43	35	31	53	42	35	30	40	34	29	38	32	29	36	31	28	26																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23637	23637	23637
5°	23474	21526	20111
10°	23624	18132	16205
15°	23966	15507	13366
20°	24513	13112	10867
25°	25224	10853	9573
30°	25946	9350	8945
35°	26320	8521	8576
40°	25690	7697	8193
45°	23447	6956	7645
50°	19600	6145	7242
55°	14730	5382	6516
60°	10182	4616	6324
65°	6728	3975	6303
70°	4484	3731	6776
75°	3000	3848	7509
80°	1942	4261	8219
85°	999	5330	9800



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1165.0	4.9
10°-20°	2740.5	11.6
20°-30°	3435.2	14.6
30°-40°	3645.1	15.5
40°-50°	3295.8	14.0
50°-60°	2389.6	10.2
60°-70°	1499.6	6.4
70°-80°	992.4	4.2
80°-90°	578.4	2.5
90°-100°	516.2	2.2
100°-110°	1274.6	5.4
110°-120°	1014.6	4.3
120°-130°	481.5	2.0
130°-140°	241.1	1.0
140°-150°	140.0	0.6
150°-160°	79.9	0.3
160°-170°	38.3	0.2
170°-180°	11.7	0.0
0°-30°	7340.6	31.2
0°-40°	10985.7	46.7
0°-60°	16671.1	70.8
0°-90°	19741.6	83.9
90°-120°	2805.4	11.9
90°-150°	3668.0	15.6
90°-180°	3798.0	16.1
0°-180°	23539.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13839	13839	13839	13839	13839	
5°	13811	13457	12667	12079	11775	###
15°	13917	11343	9009	8012	7648	3947
25°	14009	8771	6032	5354	5184	6472
35°	13507	5831	4378	4241	4240	8397
45°	10678	3693	3173	3249	3305	8134
55°	5653	2289	2070	2246	2326	5108
65°	2022	1328	1199	1536	1707	2104
75°	624	715	805	1250	1325	696
85°	109	296	589	819	752	131
90°	7	166	396	543	548	12
95°	59	195	444	591	623	205
105°	1295	1340	1424	1186	1107	1231
115°	910	924	1038	1081	1076	919
125°	457	478	542	554	544	429
135°	274	283	307	328	329	217
145°	205	211	218	231	231	130
155°	169	175	179	182	180	76
165°	131	133	134	135	136	38
175°	120	120	121	121	122	12
180°	118	118	118	118	118	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13839.0	13839.0	13839.0	13839.0	13839.0
2.5°	13810.1	13731.0	13484.7	13334.6	13208.1
5°	13811.4	13457.1	12666.8	12079.4	11775.1
7.5°	13831.1	13043.5	11619.7	10762.2	10427.7
10°	13861.4	12531.1	10642.3	9728.3	9416.1
12.5°	13883.8	11954.3	9782.3	8843.2	8500.7
15°	13916.8	11343.0	9009.1	8012.1	7648.5
17.5°	13947.0	10767.5	8245.2	7203.3	6799.0
20°	13977.3	10147.1	7481.2	6407.8	6074.5
22.5°	14006.3	9492.5	6735.8	5790.1	5562.2
25°	14008.9	8770.7	6032.5	5354.1	5184.2
27.5°	13974.7	8022.6	5462.1	4989.3	4883.9
30°	13915.4	7296.9	5019.6	4725.9	4650.7
32.5°	13767.9	6556.7	4677.1	4471.6	4428.2
35°	13507.1	5830.9	4378.1	4241.2	4239.8
37.5°	13096.2	5186.8	4054.1	4030.4	4059.3
40°	12489.0	4623.1	3747.2	3810.4	3810.4
42.5°	11678.9	4133.2	3469.3	3533.9	3516.7
45°	10677.9	3693.2	3173.0	3249.4	3304.7
47.5°	9517.5	3306.0	2870.0	3017.5	3093.9
50°	8255.7	2937.2	2593.4	2781.8	2868.7
52.5°	6933.3	2596.1	2323.4	2539.4	2609.2
55°	5653.1	2289.2	2070.5	2245.7	2326.0
57.5°	4494.0	1996.8	1822.9	1988.9	2154.8
60°	3497.0	1745.1	1589.8	1826.9	1992.8
62.5°	2671.1	1521.3	1371.1	1675.4	1841.3
65°	2021.8	1327.6	1198.6	1535.8	1707.0
67.5°	1523.9	1160.4	1064.2	1434.3	1601.6
70°	1144.6	998.4	956.2	1371.1	1521.3
72.5°	845.6	849.5	870.7	1315.8	1430.4
75°	624.3	715.2	804.8	1249.9	1325.0
77.5°	446.5	592.7	745.5	1170.9	1197.2
80°	309.5	483.4	683.6	1066.9	1044.5
82.5°	193.6	387.3	628.3	952.3	890.4
85°	109.3	296.4	588.8	819.3	752.1
87.5°	48.8	221.3	515.0	638.8	596.7
90°	7.0	166.4	395.9	543.3	548.2
92.5°	24.3	154.9	381.8	523.4	541.8
95°	59.2	194.8	443.8	590.9	623.2
97.5°	331.8	425.9	585.3	741.9	778.6
100°	706.1	784.9	815.0	908.9	939.5
102.5°	1103.0	1171.8	1114.8	1042.6	1027.0
105°	1294.7	1339.6	1423.7	1186.2	1107.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1065.2	1099.4	1209.7	1249.7	1228.4
115°	910.0	924.2	1037.9	1080.8	1076.0
117.5°	781.8	792.8	893.4	922.7	914.5
120°	660.1	675.9	763.6	779.1	772.2
122.5°	549.7	572.4	644.3	658.0	645.4
125°	456.6	477.5	541.9	553.9	543.9
127.5°	392.7	400.6	456.2	470.3	469.0
130°	339.7	349.3	390.5	410.6	408.9
132.5°	301.8	311.4	343.8	364.9	367.5
135°	274.0	282.7	306.8	327.9	328.7
137.5°	251.4	260.6	276.3	297.8	298.7
140°	232.2	240.1	253.3	272.5	272.5
142.5°	218.0	224.5	234.1	249.9	249.9
145°	205.4	211.0	218.0	231.1	230.7
147.5°	194.9	201.0	206.7	214.1	213.7
150°	185.4	191.9	195.4	201.1	200.7
152.5°	176.7	183.2	186.7	190.2	189.7
155°	168.8	175.4	179.3	182.4	179.7
157.5°	146.1	148.7	151.3	152.2	152.2
160°	140.8	142.6	145.2	145.2	146.1
162.5°	135.6	137.4	139.1	140.0	140.8
165°	131.3	133.0	133.9	134.8	135.6
167.5°	127.8	128.7	129.5	130.4	130.4
170°	124.3	125.2	126.1	126.1	126.9
172.5°	121.7	122.6	123.5	123.5	123.5
175°	120.0	120.0	120.9	120.9	121.7
177.5°	118.2	119.1	119.1	119.1	120.0
180°	118.2	118.2	118.2	118.2	118.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1306.9	1352.9	1467.9	1375.8	1233.7
110°	1208.2	1256.4	1370.8	1369.9	1310.4



(END OF REPORT)