

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: P828355

Luminaire Tested: **OHBL-24SE-N-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828355
REPORT IS A COMBINATION OF REPORTS P826248 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

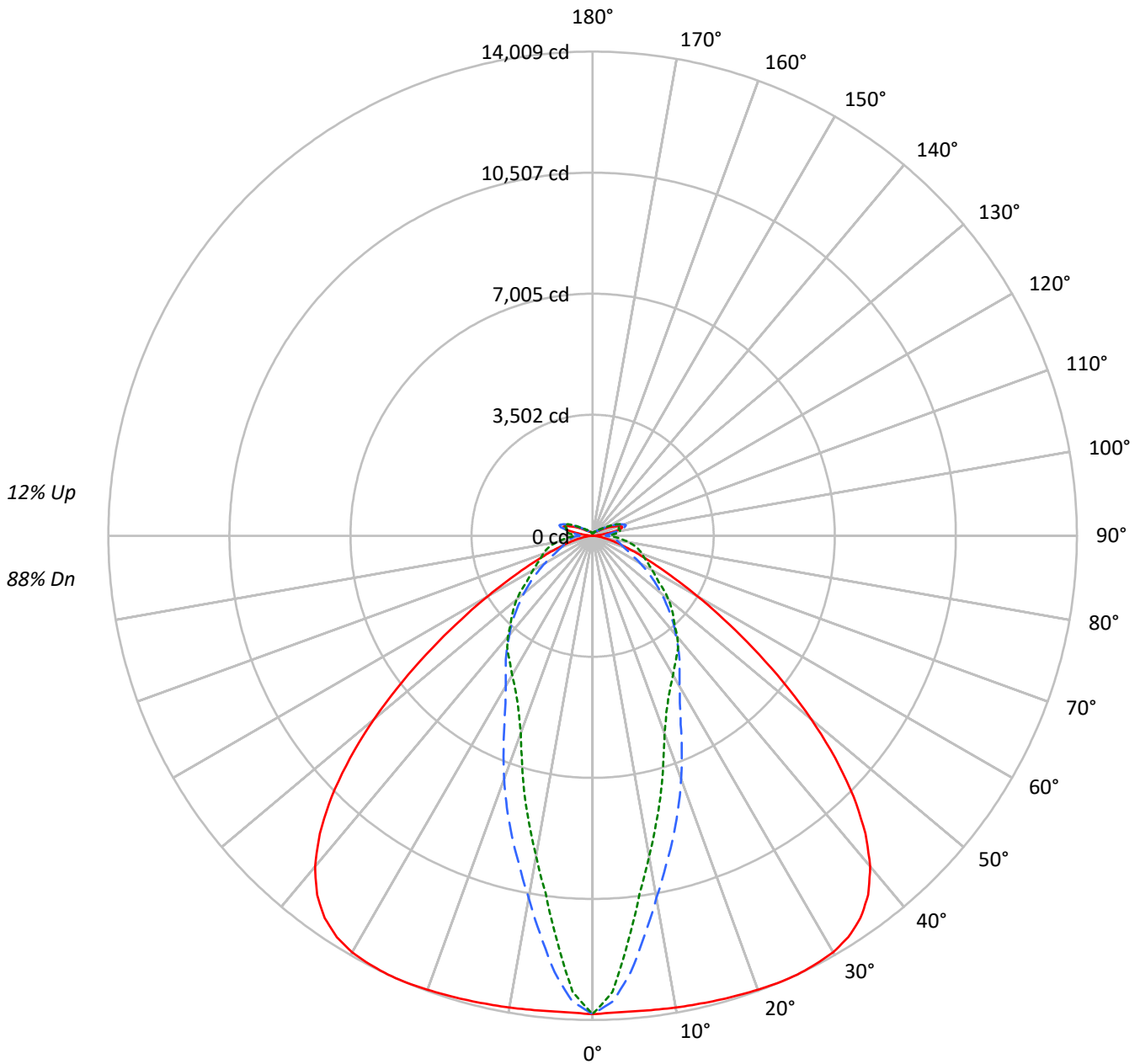
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22529.3 lumens
Efficiency: N/A
Efficacy: 145.0 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): 155.4
Input Voltage (V): NR
Input Current (Ain): 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				20				
RC	80				70				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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88			88
1	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75			75
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64			64
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56			56
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49			49
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44			44
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39			39
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35			35
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32			32
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29			29
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27			27

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	5.2
10°-20°	2740.5	12.2
20°-30°	3435.2	15.2
30°-40°	3645.1	16.2
40°-50°	3295.8	14.6
50°-60°	2389.6	10.6
60°-70°	1499.6	6.7
70°-80°	992.4	4.4
80°-90°	577.1	2.6
90°-100°	478.6	2.1
100°-110°	891.0	4.0
110°-120°	718.3	3.2
120°-130°	345.1	1.5
130°-140°	170.4	0.8
140°-150°	97.9	0.4
150°-160°	54.9	0.2
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	7340.6	32.6
0°-40°	10985.7	48.8
0°-60°	16671.1	74.0
0°-90°	19740.2	87.6
90°-120°	2087.9	9.3
90°-150°	2701.3	12.0
90°-180°	2789.0	12.4
0°-180°	22529.3	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°	4	153	382	535	545	10
95°	51	184	450	606	651	148
105°	883	920	952	812	778	838
115°	616	649	755	790	789	621
125°	310	331	391	410	406	289
135°	187	193	216	237	238	148
145°	142	147	152	163	163	90
155°	117	122	125	128	125	52
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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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°	4.3	153.4	382.0	534.6	544.7
92.5°	17.4	141.9	377.4	528.6	553.1
95°	51.4	183.5	449.9	606.5	651.0
97.5°	240.5	329.4	554.0	708.9	753.4
100°	487.8	578.0	670.7	783.7	804.8
102.5°	750.9	800.5	775.7	799.1	802.7
105°	882.6	920.5	952.5	812.3	777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	715.6	757.7	863.7	887.2	865.9
115°	616.2	648.6	755.3	790.4	789.1
117.5°	530.5	551.1	648.2	680.2	682.3
120°	441.9	467.2	554.1	577.4	572.2
122.5°	373.2	394.1	465.2	485.8	479.3
125°	309.7	330.6	390.6	409.6	405.7
127.5°	263.2	277.1	329.3	348.6	346.4
130°	231.0	240.6	280.9	300.2	301.1
132.5°	205.3	214.1	243.8	265.8	264.9
135°	187.0	193.2	216.4	236.6	238.3
137.5°	172.2	178.8	194.6	214.3	214.3
140°	159.2	165.4	177.6	195.1	196.0
142.5°	149.3	154.1	162.8	177.7	177.7
145°	141.9	146.7	151.9	163.3	162.8
147.5°	134.1	140.2	143.2	151.5	150.2
150°	128.0	133.6	136.2	141.1	140.7
152.5°	121.9	127.5	130.2	133.7	132.3
155°	116.7	122.3	125.4	127.6	124.9
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	886.1	933.0	1011.4	893.3	796.4
110°	819.5	864.3	959.5	941.3	865.3



(END OF REPORT)