

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: P828049

Luminaire Tested: **OHBL-24SE-MCL-UNV-L935-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828049
REPORT IS A COMBINATION OF REPORTS P826246 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-MCL-UNV-L935-CD-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

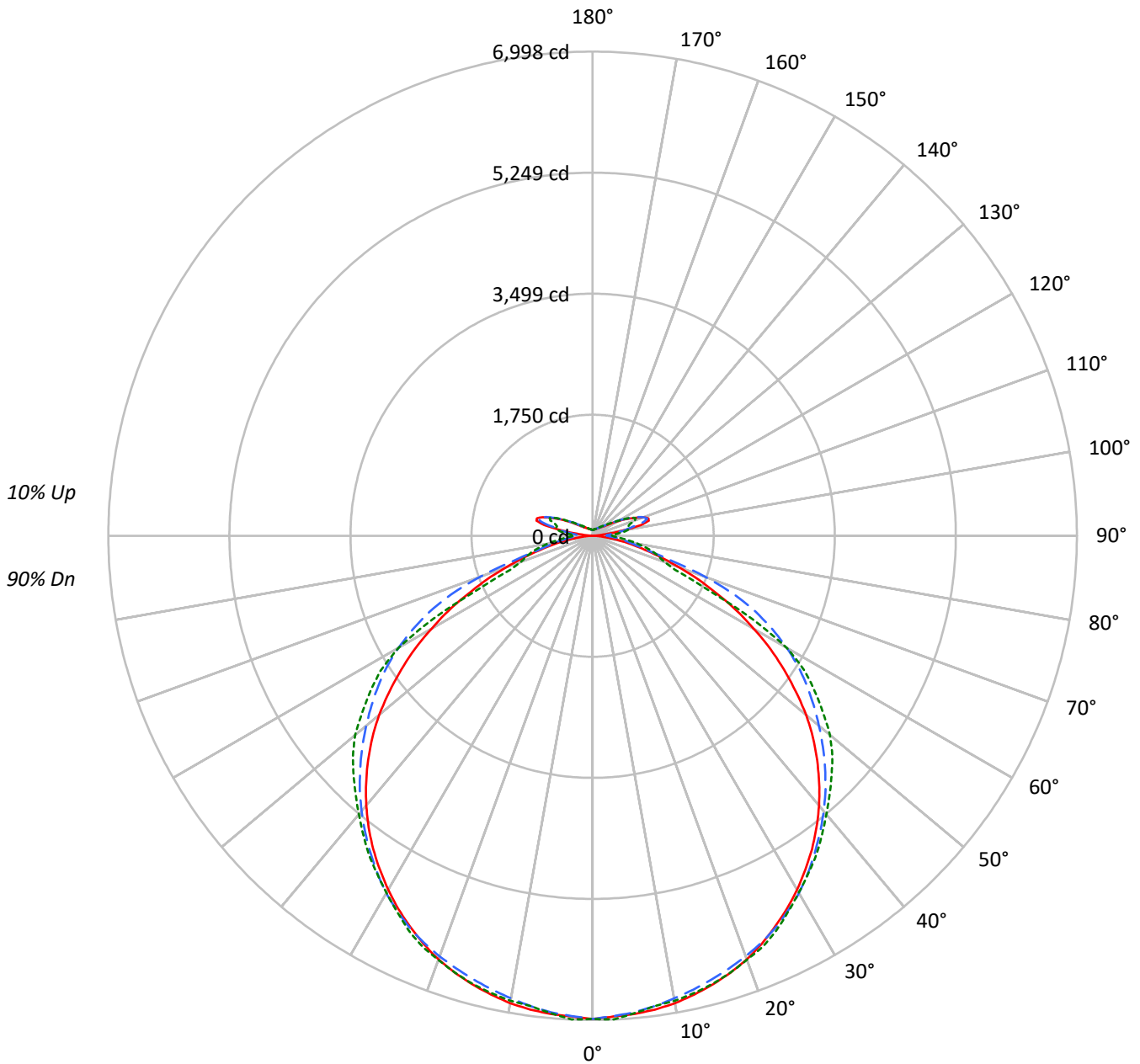
Lumens per Lamp: N/A
Luminaire Lumens: 21755.3 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 155.4
Input Voltage (V): NR
Input Current (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				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	117	117	117	117	113	113	113	113	105	105	105	99	99	99	93	93	93	93	93	93	90
1	107	102	98	94	103	99	95	92	93	90	87	87	85	83	82	80	78	78	78	78	76
2	97	89	83	77	94	87	81	76	81	77	72	77	73	69	72	69	66	66	66	66	63
3	89	79	71	64	85	76	69	63	72	66	61	68	63	58	64	60	56	56	56	56	54
4	81	70	61	55	78	68	60	54	64	57	52	60	55	50	57	52	48	48	48	48	46
5	75	62	53	47	72	60	52	46	57	50	45	54	48	43	51	46	42	42	42	42	40
6	69	56	47	41	66	54	46	40	52	44	39	49	43	38	46	41	37	37	37	37	35
7	64	51	42	36	62	49	41	36	47	40	35	45	38	34	42	37	33	33	33	33	31
8	59	46	38	32	57	45	37	32	43	36	31	41	35	30	39	33	29	29	29	29	27
9	55	42	34	29	53	41	34	28	39	33	28	38	31	27	36	30	26	26	26	26	24
10	52	39	31	26	50	38	31	26	36	30	25	35	29	25	33	28	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11928	11928	11928
5°	11792	11749	11829
10°	11692	11566	11747
15°	11560	11428	11719
20°	11427	11338	11667
25°	11229	11249	11618
30°	11016	11110	11456
35°	10771	10893	11396
40°	10468	10669	11298
45°	10073	10410	11302
50°	9561	10116	11303
55°	8795	9825	10987
60°	7823	9402	10280
65°	6593	8627	6618
70°	5182	6721	4903
75°	3746	3978	5139
80°	2453	3292	5180
85°	1228	2989	5447



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.5	3.0
10°-20°	1888.2	8.7
20°-30°	2883.9	13.3
30°-40°	3499.1	16.1
40°-50°	3667.4	16.9
50°-60°	3323.2	15.3
60°-70°	2228.1	10.2
70°-80°	1000.5	4.6
80°-90°	368.2	1.7
90°-100°	302.5	1.4
100°-110°	722.3	3.3
110°-120°	601.2	2.8
120°-130°	290.3	1.3
130°-140°	147.9	0.7
140°-150°	86.6	0.4
150°-160°	51.5	0.2
160°-170°	27.3	0.1
170°-180°	8.4	0.0
0°-30°	5430.5	25.0
0°-40°	8929.7	41.0
0°-60°	15920.3	73.2
0°-90°	19517.1	89.7
90°-120°	1626.0	7.5
90°-150°	2150.9	9.9
90°-180°	2238.0	10.3
0°-180°	21755.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	6983	6983	6983	6983	6983	
5°	6938	6962	6914	6935	6926	660
15°	6713	6687	6639	6698	6706	1895
25°	6236	6209	6252	6310	6292	2875
35°	5527	5540	5597	5657	5634	3455
45°	4587	4662	4749	4870	4885	3534
55°	3376	3538	3780	3931	3922	3013
65°	1981	2291	2601	2195	1792	1974
75°	780	1131	832	851	907	852
85°	134	258	330	399	418	164
90°	5	114	210	266	282	11
95°	45	146	260	332	361	139
105°	840	850	761	570	533	798
115°	585	595	612	618	615	589
125°	289	305	321	323	321	271
135°	176	180	187	194	196	139
145°	130	134	137	139	140	83
155°	107	109	111	112	111	50
165°	94	95	96	96	96	27
175°	86	87	86	86	86	8
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	6983.4	6983.4	6983.4	6983.4	6983.4
2.5°	6955.2	6984.4	6948.1	6987.5	6997.6
5°	6938.0	6962.3	6913.8	6935.0	6925.9
7.5°	6906.7	6914.8	6857.3	6874.4	6856.2
10°	6860.2	6856.2	6788.6	6821.9	6825.9
12.5°	6791.6	6779.5	6718.9	6769.3	6770.4
15°	6712.8	6686.6	6639.1	6697.7	6705.8
17.5°	6621.9	6587.6	6556.3	6632.1	6619.9
20°	6515.9	6475.5	6469.5	6552.2	6522.0
22.5°	6384.7	6353.3	6367.5	6446.2	6427.1
25°	6236.2	6209.0	6252.4	6309.9	6291.8
27.5°	6079.8	6063.6	6113.0	6157.5	6122.1
30°	5908.1	5899.0	5964.6	6000.9	5956.5
32.5°	5721.2	5724.3	5786.9	5836.3	5795.0
35°	5527.4	5540.5	5597.1	5656.7	5634.4
37.5°	5314.3	5343.6	5400.2	5467.8	5444.6
40°	5089.2	5131.6	5194.2	5275.9	5254.8
42.5°	4845.8	4899.3	4980.1	5071.0	5068.9
45°	4587.3	4662.0	4748.8	4870.0	4885.2
47.5°	4318.7	4402.5	4512.6	4674.2	4697.3
50°	4026.9	4131.9	4269.3	4463.1	4477.2
52.5°	3701.8	3845.2	4026.9	4212.7	4195.5
55°	3375.6	3538.2	3779.5	3931.0	3921.8
57.5°	3050.4	3233.2	3526.1	3634.1	3633.1
60°	2686.9	2918.2	3238.2	3320.1	3239.2
62.5°	2350.7	2599.1	2931.3	2871.8	2595.1
65°	1981.2	2291.2	2601.1	2195.2	1792.3
67.5°	1653.0	1976.1	2209.3	1503.5	1287.4
70°	1322.8	1679.2	1722.7	1115.8	1100.7
72.5°	1029.9	1409.6	1188.5	955.2	1003.7
75°	779.5	1130.9	832.0	851.2	906.8
77.5°	568.5	868.4	647.3	746.2	791.7
80°	390.8	614.9	528.1	627.1	658.3
82.5°	245.3	405.9	423.1	504.9	537.2
85°	134.3	257.5	330.2	398.8	418.0
87.5°	55.5	155.5	252.4	308.0	324.2
90°	5.2	114.2	209.8	265.8	281.7
92.5°	15.2	103.2	199.3	257.7	275.6
95°	45.2	146.0	260.5	332.3	361.4
97.5°	226.2	284.9	358.8	434.0	465.5
100°	463.0	523.7	475.9	515.6	526.2
102.5°	714.8	734.9	583.7	544.5	540.8
105°	839.8	849.9	760.9	570.5	532.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	680.4	697.5	704.3	694.2	669.6
115°	584.8	594.6	611.8	618.2	615.2
117.5°	501.4	504.3	522.8	528.0	530.8
120°	416.4	426.6	447.3	448.1	444.1
122.5°	350.6	360.6	376.7	380.1	376.1
125°	288.8	304.8	320.7	322.8	321.4
127.5°	246.4	257.2	273.7	277.5	277.7
130°	215.6	223.2	236.7	241.5	242.3
132.5°	193.2	200.1	209.0	216.3	215.5
135°	175.8	180.1	186.9	193.7	196.3
137.5°	162.6	165.1	170.1	177.7	178.7
140°	150.1	153.4	156.6	162.3	164.2
142.5°	138.2	142.6	144.9	149.6	150.7
145°	129.9	134.2	136.8	138.6	140.4
147.5°	123.4	126.8	128.4	130.1	131.1
150°	117.6	119.2	121.8	122.6	123.4
152.5°	111.8	113.4	115.9	116.8	116.8
155°	106.8	109.4	111.1	111.9	110.9
157.5°	102.6	105.2	106.9	107.8	107.8
160°	99.2	101.1	102.8	103.6	103.6
162.5°	96.9	97.8	98.6	99.4	99.4
165°	94.4	95.2	96.1	96.1	96.1
167.5°	91.9	92.9	92.8	93.6	93.6
170°	89.4	90.2	90.2	90.1	90.1
172.5°	87.8	88.6	88.6	87.6	88.4
175°	86.1	86.9	85.9	85.8	85.8
177.5°	87.1	86.1	85.1	84.1	83.1
180°	85.1	85.1	85.1	85.1	85.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	844.2	861.7	827.0	667.1	567.4
110°	780.2	797.8	785.6	730.5	650.8



(END OF REPORT)