

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: P393707

Luminaire Tested: **24EN-LD2-74-UNV-L83050-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393707
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-40)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-74-UNV-L83050-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 2700K/6500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7252.6 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.28 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

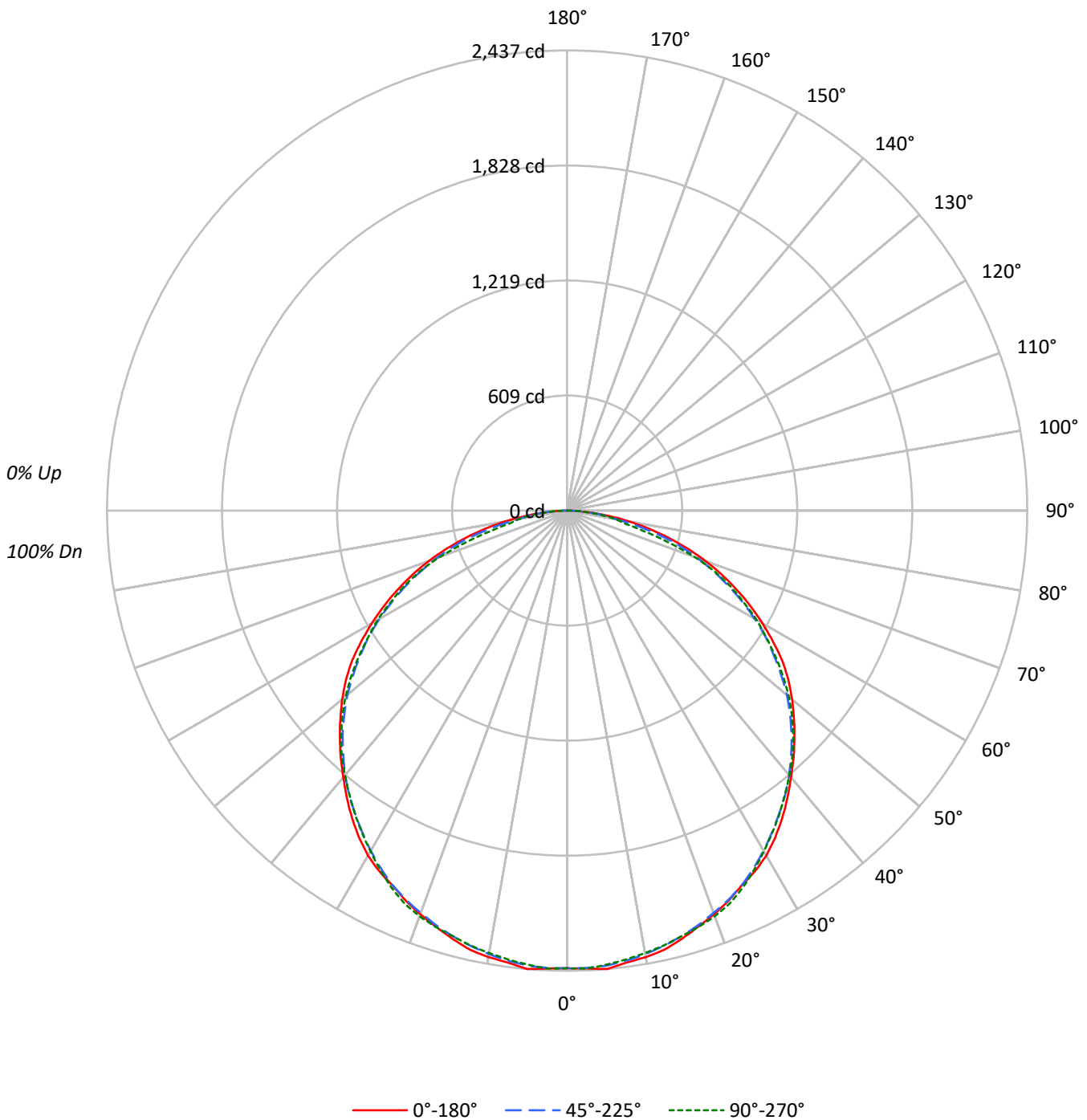
Input Watts (W): 55.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3261	3261	3261
5°	3292	3266	3260
10°	3280	3259	3251
15°	3270	3251	3252
20°	3257	3246	3274
25°	3250	3249	3269
30°	3278	3232	3238
35°	3263	3216	3219
40°	3239	3213	3214
45°	3239	3200	3222
50°	3254	3180	3207
55°	3268	3137	3160
60°	3214	3087	3119
65°	3154	2998	3048
70°	3058	2891	2826
75°	2890	2655	2179
80°	2577	2051	2013
85°	2021	1899	1748



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	3.2
10°-20°	660.0	9.1
20°-30°	1008.8	13.9
30°-40°	1230.0	17.0
40°-50°	1301.8	17.9
50°-60°	1206.5	16.6
60°-70°	946.5	13.1
70°-80°	528.0	7.3
80°-90°	141.2	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1898.6	26.2
0°-40°	3128.6	43.1
0°-60°	5636.8	77.7
0°-90°	7252.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7252.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2424	2424	2424	2424	2424	
5°	2437	2415	2418	2414	2414	231
15°	2348	2339	2334	2333	2335	663
25°	2189	2191	2188	2179	2202	1013
35°	1987	1963	1958	1965	1960	1242
45°	1702	1700	1682	1672	1693	1315
55°	1393	1356	1337	1340	1347	1239
65°	991	973	942	952	957	979
75°	556	533	511	447	419	586
85°	131	124	123	115	113	156
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2423.5	2423.5	2423.5	2423.5	2423.5
2.5°	2427.4	2421.5	2424.4	2415.6	2427.4
5°	2437.2	2414.6	2418.5	2413.6	2413.6
7.5°	2413.6	2403.8	2403.8	2404.8	2397.9
10°	2400.8	2388.0	2385.1	2388.0	2379.2
12.5°	2382.1	2363.4	2361.5	2363.4	2359.5
15°	2347.7	2338.8	2333.9	2332.9	2334.9
17.5°	2310.3	2308.3	2303.4	2299.5	2312.3
20°	2274.9	2276.9	2267.0	2264.1	2286.7
22.5°	2235.5	2235.5	2231.6	2221.8	2252.3
25°	2189.3	2191.3	2188.3	2179.4	2202.1
27.5°	2153.9	2139.1	2136.2	2133.2	2145.0
30°	2109.6	2083.0	2080.1	2081.0	2084.0
32.5°	2051.5	2025.0	2020.0	2025.9	2022.0
35°	1986.6	1963.0	1958.1	1964.9	1960.0
37.5°	1916.7	1903.0	1897.1	1897.1	1895.1
40°	1843.9	1838.0	1829.2	1826.2	1830.1
42.5°	1775.0	1774.1	1755.4	1751.4	1766.2
45°	1702.2	1700.3	1681.6	1671.7	1693.4
47.5°	1629.4	1621.5	1600.9	1591.0	1615.6
50°	1554.6	1535.9	1519.2	1516.3	1532.0
52.5°	1476.9	1447.4	1427.7	1425.7	1441.5
55°	1393.3	1355.9	1337.2	1340.1	1347.0
57.5°	1293.9	1265.4	1246.7	1245.7	1249.6
60°	1194.5	1169.9	1147.3	1150.2	1159.1
62.5°	1093.2	1073.5	1045.9	1054.8	1054.8
65°	990.8	973.1	941.6	951.5	957.4
67.5°	886.5	866.9	836.4	841.3	847.2
70°	777.3	755.7	735.0	716.3	718.3
72.5°	667.1	643.5	629.7	582.5	568.7
75°	555.9	533.3	510.7	446.7	419.2
77.5°	442.8	430.0	386.7	317.8	308.0
80°	332.6	326.7	264.7	260.7	259.8
82.5°	230.2	220.4	201.7	189.9	187.0
85°	130.9	124.0	123.0	115.1	113.2
87.5°	46.2	49.2	50.2	50.2	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)