

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: P393698

Luminaire Tested: **24EN-LD2-74-UNV-L82765-W2A-1-U (2700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393698
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-L82765-W2A-1-U (2700K)
Description: 2X4 ENCOUNTER, 7400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6696.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

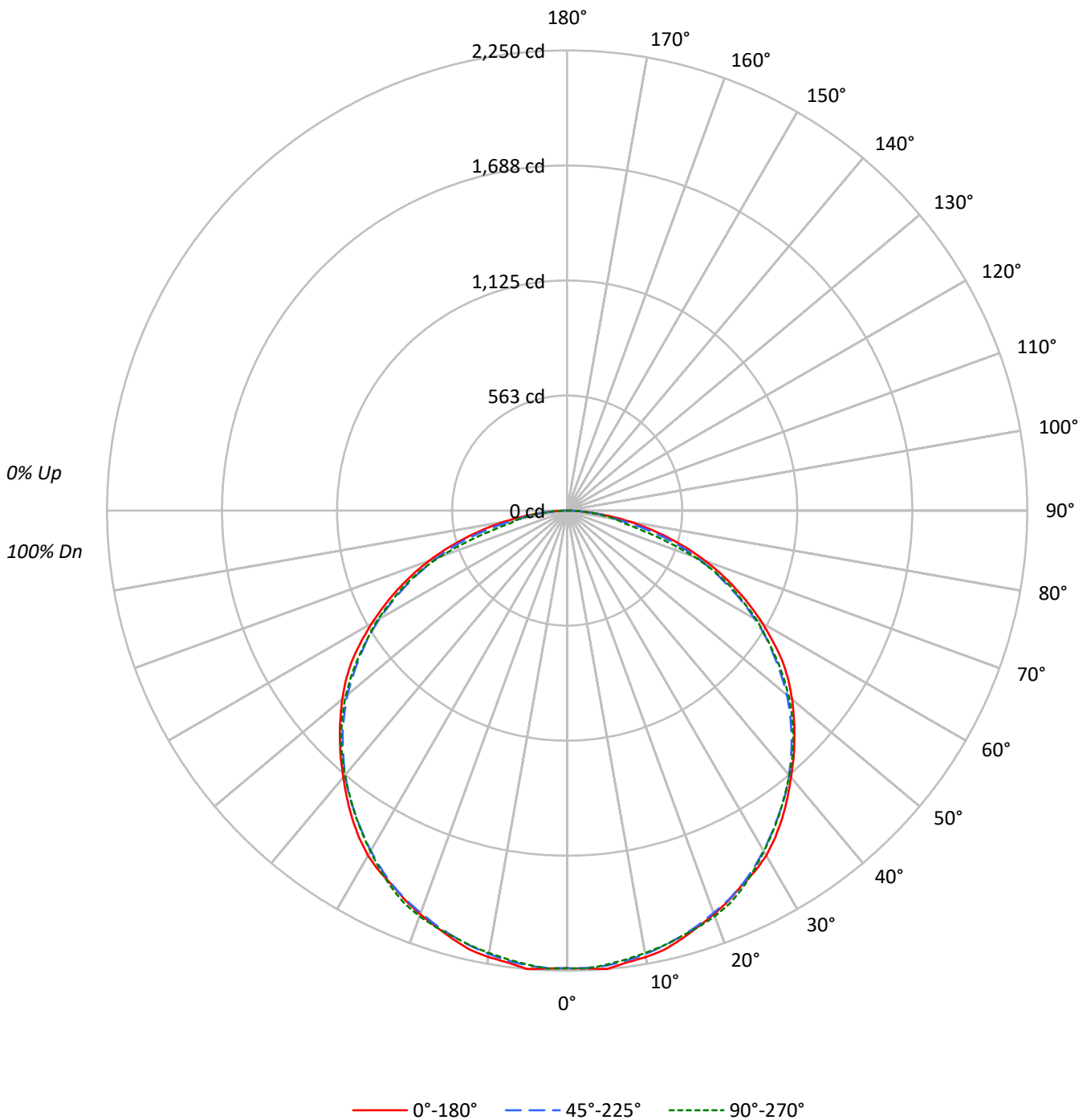
Input Watts (W): 55.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3011	3011	3011
5°	3039	3016	3010
10°	3028	3008	3001
15°	3019	3002	3003
20°	3007	2997	3023
25°	3001	2999	3018
30°	3026	2984	2989
35°	3013	2969	2972
40°	2990	2966	2968
45°	2990	2954	2975
50°	3004	2936	2961
55°	3017	2896	2917
60°	2968	2850	2880
65°	2912	2768	2814
70°	2823	2670	2609
75°	2668	2451	2012
80°	2379	1894	1858
85°	1865	1754	1613



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.1	3.2
10°-20°	609.4	9.1
20°-30°	931.4	13.9
30°-40°	1135.6	17.0
40°-50°	1201.9	17.9
50°-60°	1113.9	16.6
60°-70°	873.9	13.1
70°-80°	487.5	7.3
80°-90°	130.4	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°	1752.9	26.2
0°-40°	2888.5	43.1
0°-60°	5204.2	77.7
0°-90°	6696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2250	2229	2233	2228	2228	213
15°	2168	2159	2155	2154	2156	612
25°	2021	2023	2020	2012	2033	935
35°	1834	1812	1808	1814	1810	1147
45°	1572	1570	1552	1543	1563	1214
55°	1286	1252	1235	1237	1244	1144
65°	915	898	869	878	884	904
75°	513	492	472	412	387	541
85°	121	114	114	106	104	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.5	2237.5	2237.5	2237.5	2237.5
2.5°	2241.1	2235.6	2238.4	2230.2	2241.1
5°	2250.2	2229.3	2232.9	2228.4	2228.4
7.5°	2228.4	2219.3	2219.3	2220.2	2213.8
10°	2216.6	2204.8	2202.0	2204.8	2196.6
12.5°	2199.3	2182.1	2180.2	2182.1	2178.4
15°	2167.5	2159.3	2154.8	2153.9	2155.7
17.5°	2133.0	2131.2	2126.6	2123.0	2134.8
20°	2100.3	2102.1	2093.0	2090.3	2111.2
22.5°	2064.0	2064.0	2060.3	2051.2	2079.4
25°	2021.3	2023.1	2020.3	2012.2	2033.1
27.5°	1988.6	1974.9	1972.2	1969.5	1980.4
30°	1947.7	1923.1	1920.4	1921.3	1924.1
32.5°	1894.1	1869.6	1865.0	1870.5	1866.8
35°	1834.1	1812.3	1807.8	1814.1	1809.6
37.5°	1769.6	1756.9	1751.5	1751.5	1749.6
40°	1702.4	1696.9	1688.8	1686.0	1689.7
42.5°	1638.8	1637.9	1620.6	1617.0	1630.6
45°	1571.6	1569.8	1552.5	1543.4	1563.4
47.5°	1504.4	1497.1	1478.0	1468.9	1491.6
50°	1435.3	1418.1	1402.6	1399.9	1414.4
52.5°	1363.6	1336.3	1318.1	1316.3	1330.9
55°	1286.3	1251.8	1234.6	1237.3	1243.6
57.5°	1194.6	1168.2	1151.0	1150.1	1153.7
60°	1102.8	1080.1	1059.2	1062.0	1070.1
62.5°	1009.3	991.1	965.7	973.8	973.8
65°	914.8	898.4	869.4	878.5	883.9
67.5°	818.5	800.3	772.2	776.7	782.2
70°	717.7	697.7	678.6	661.3	663.2
72.5°	615.9	594.1	581.4	537.8	525.1
75°	513.3	492.4	471.5	412.4	387.0
77.5°	408.8	397.0	357.0	293.4	284.3
80°	307.0	301.6	244.4	240.7	239.8
82.5°	212.6	203.5	186.2	175.3	172.6
85°	120.8	114.5	113.6	106.3	104.5
87.5°	42.7	45.4	46.3	46.3	46.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)