

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: P393672

Luminaire Tested: **24EN-LD2-70-UNV-L82765-W2A-1-U (5700K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393672
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-39)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-70-UNV-L82765-W2A-1-U (5700K)
Description: 2X4 ENCOUNTER, 7000 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6758.7 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

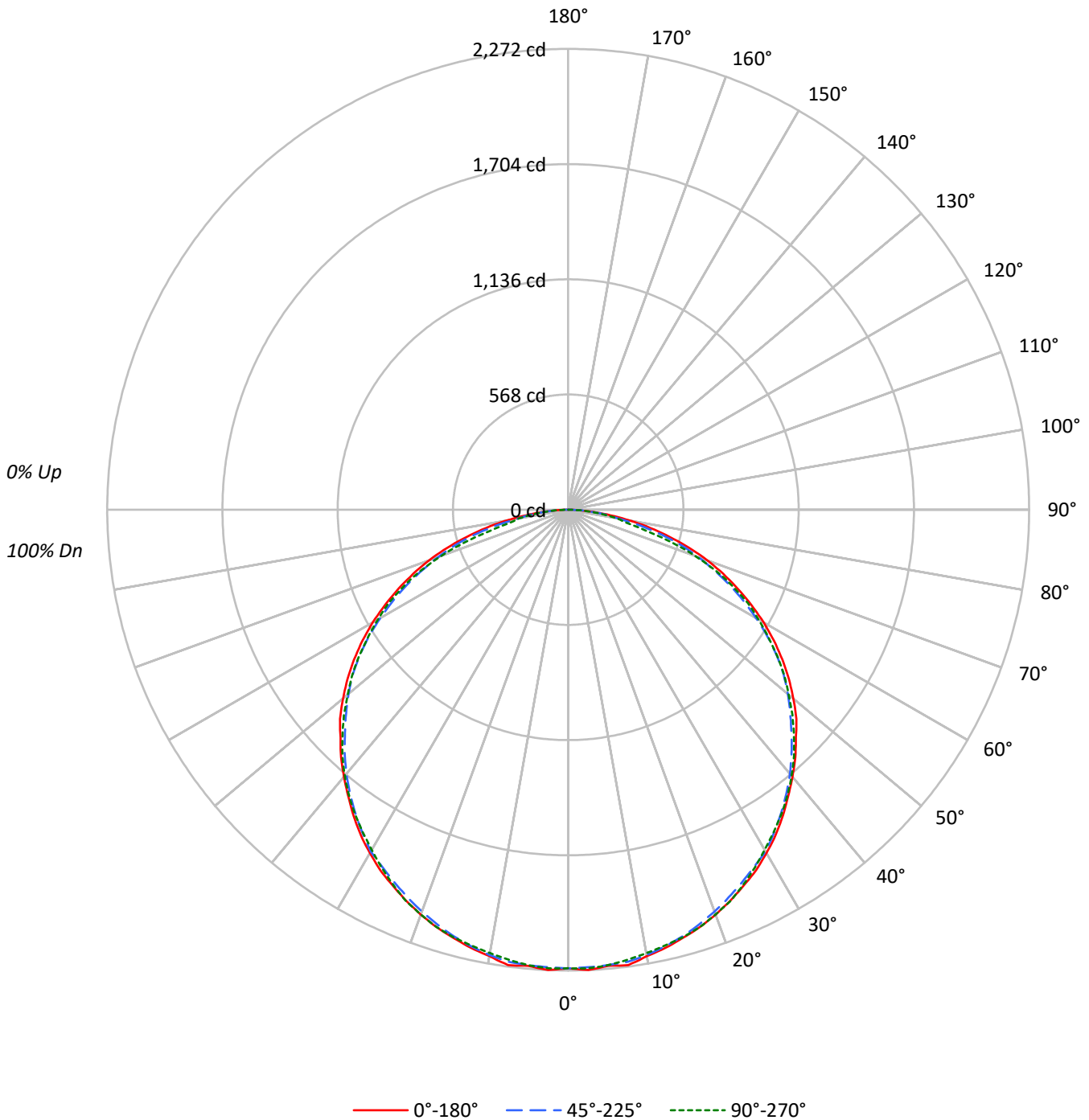
Input Watts (W): 50.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3042	3042	3042
5°	3049	3044	3045
10°	3054	3046	3033
15°	3045	3033	3040
20°	3042	3019	3040
25°	3036	3009	3029
30°	3037	3023	3008
35°	3029	3003	3009
40°	3020	2986	3008
45°	3021	2960	2993
50°	3032	2958	2968
55°	3023	2944	2951
60°	2993	2876	2915
65°	2937	2792	2851
70°	2870	2681	2620
75°	2695	2480	2039
80°	2390	1934	1889
85°	1905	1741	1607



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.2
10°-20°	614.8	9.1
20°-30°	938.8	13.9
30°-40°	1145.8	17.0
40°-50°	1211.2	17.9
50°-60°	1126.4	16.7
60°-70°	881.5	13.0
70°-80°	494.6	7.3
80°-90°	131.2	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°	1768.0	26.2
0°-40°	2913.8	43.1
0°-60°	5251.4	77.7
0°-90°	6758.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6758.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2257	2254	2253	2252	2254	215
15°	2186	2179	2177	2168	2182	618
25°	2045	2035	2027	2038	2040	944
35°	1844	1836	1828	1822	1832	1154
45°	1587	1575	1556	1565	1573	1227
55°	1289	1271	1255	1249	1258	1150
65°	922	902	877	882	895	913
75°	518	499	477	421	392	548
85°	123	115	113	105	104	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2261.1	2261.1	2261.1	2261.1	2261.1
2.5°	2271.7	2257.3	2258.2	2263.0	2263.0
5°	2257.3	2254.4	2253.4	2251.5	2254.4
7.5°	2265.0	2245.7	2248.6	2237.0	2238.0
10°	2235.1	2227.4	2229.3	2220.6	2219.7
12.5°	2212.9	2210.0	2205.2	2196.5	2201.4
15°	2185.9	2179.2	2177.3	2167.6	2182.1
17.5°	2158.0	2147.4	2144.5	2138.7	2158.0
20°	2124.3	2114.6	2108.8	2107.9	2123.3
22.5°	2086.7	2077.0	2068.3	2075.1	2088.6
25°	2045.2	2034.6	2026.9	2038.5	2040.4
27.5°	2004.7	1992.2	1984.5	1991.2	1990.3
30°	1954.6	1944.0	1945.9	1939.2	1936.3
32.5°	1902.6	1892.9	1888.1	1881.4	1884.3
35°	1843.8	1836.1	1828.4	1821.6	1832.2
37.5°	1781.1	1776.3	1765.7	1759.0	1775.3
40°	1719.4	1708.8	1700.2	1695.4	1712.7
42.5°	1656.8	1645.2	1629.8	1628.8	1647.2
45°	1587.4	1574.9	1555.6	1565.2	1572.9
47.5°	1525.7	1505.5	1484.3	1493.9	1498.7
50°	1448.6	1432.2	1413.0	1416.8	1417.8
52.5°	1370.5	1357.1	1338.7	1333.9	1342.6
55°	1288.6	1271.3	1254.9	1249.1	1257.8
57.5°	1201.9	1186.5	1165.3	1157.5	1169.1
60°	1112.2	1092.0	1068.9	1068.9	1083.3
62.5°	1017.8	1001.4	973.5	977.3	998.5
65°	922.4	902.1	877.1	881.9	895.4
67.5°	827.0	806.7	776.8	783.6	789.4
70°	729.6	704.5	681.4	674.7	666.0
72.5°	624.6	601.4	586.0	549.4	534.9
75°	518.5	499.3	477.1	421.2	392.3
77.5°	414.4	401.9	366.3	300.7	289.1
80°	308.4	302.6	249.6	244.8	243.8
82.5°	210.1	206.3	189.9	176.4	173.5
85°	123.4	114.7	112.8	105.1	104.1
87.5°	42.4	46.3	45.3	46.3	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)