

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: P393571

Luminaire Tested: **24EN-LD2-54-UNV-L82765-W2A-1-U (3000K)**

Issue Date: 3/28/2020

Test Information

Test Method: LM-79-08
Report Number: P393571
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-563-36)
Test Lab: INNOVATION CENTER
Issue Date: 3/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24EN-LD2-54-UNV-L82765-W2A-1-U (3000K)
Description: 2X4 ENCOUNTER, 5400 LUMENS, VIVIDTUNE TUNABLE WHITE
Light Source: 3000K/5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4999.8 lumens
Efficiency: N/A
Efficacy: 128.9 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

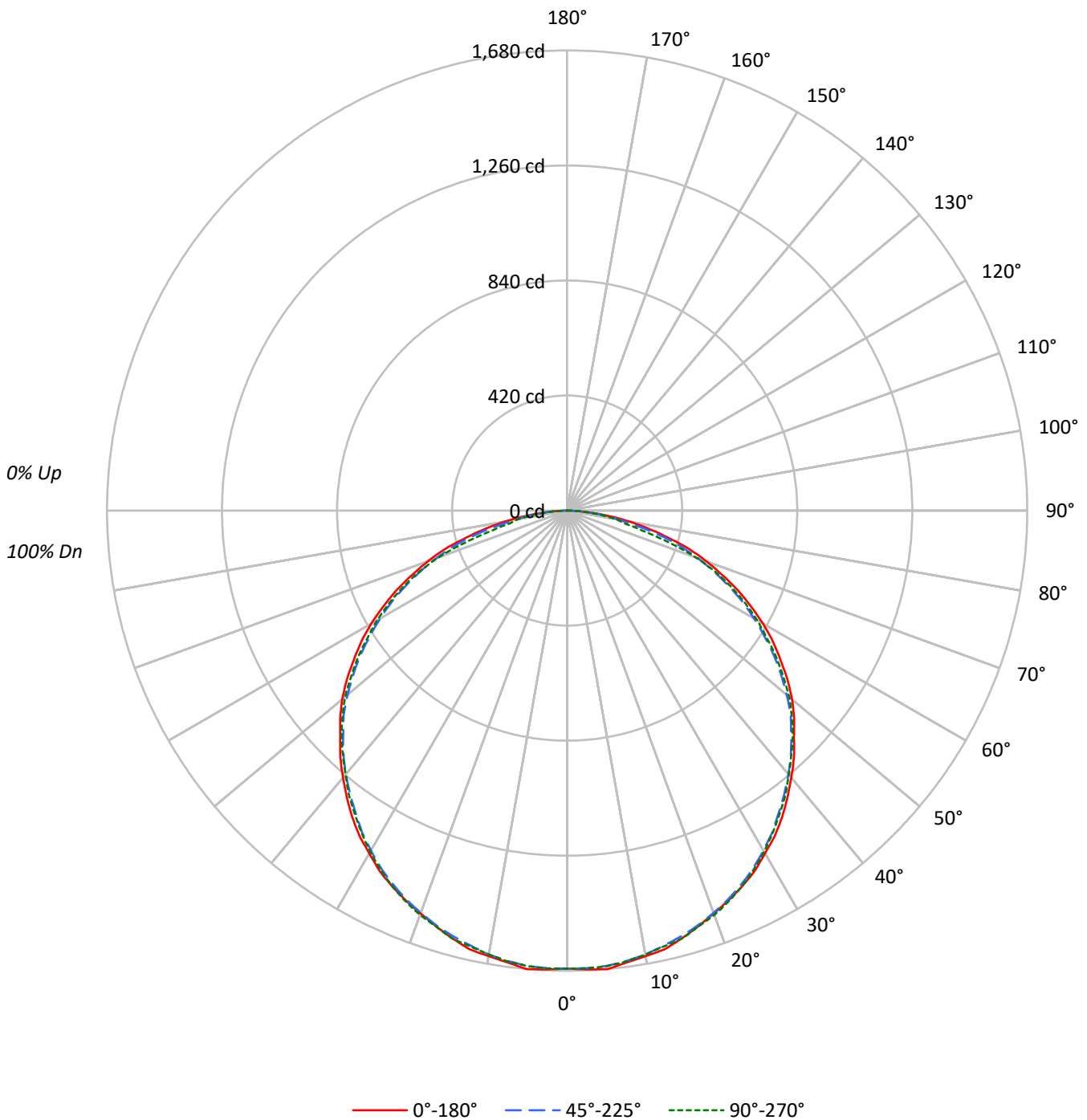
Input Watts (W): 38.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2250	2250	2250
5°	2269	2253	2255
10°	2257	2248	2248
15°	2253	2241	2254
20°	2241	2238	2250
25°	2247	2235	2245
30°	2244	2226	2234
35°	2246	2212	2221
40°	2236	2207	2210
45°	2229	2201	2217
50°	2244	2191	2216
55°	2231	2162	2186
60°	2221	2120	2155
65°	2187	2070	2108
70°	2125	1995	1970
75°	1984	1840	1493
80°	1777	1450	1400
85°	1430	1289	1175



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.2
10°-20°	455.0	9.1
20°-30°	694.3	13.9
30°-40°	847.3	16.9
40°-50°	896.5	17.9
50°-60°	831.8	16.6
60°-70°	652.7	13.1
70°-80°	366.4	7.3
80°-90°	97.1	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°	1307.9	26.2
0°-40°	2155.2	43.1
0°-60°	3883.5	77.7
0°-90°	4999.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4999.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1672	1672	1672	1672	1672	
5°	1680	1669	1668	1665	1669	159
15°	1617	1614	1609	1608	1618	456
25°	1513	1502	1505	1501	1512	697
35°	1368	1358	1346	1350	1352	855
45°	1171	1167	1157	1152	1165	906
55°	951	936	922	925	932	851
65°	687	669	650	650	662	678
75°	382	370	354	313	287	405
85°	93	84	84	77	76	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.1	1672.1	1672.1	1672.1	1672.1
2.5°	1676.7	1671.2	1672.1	1670.3	1673.0
5°	1680.3	1669.3	1668.4	1664.7	1669.3
7.5°	1663.8	1660.2	1658.3	1657.4	1660.2
10°	1651.9	1645.5	1645.5	1646.4	1645.5
12.5°	1640.9	1631.7	1627.1	1629.9	1629.9
15°	1617.1	1614.3	1608.8	1607.9	1618.0
17.5°	1591.4	1593.2	1587.7	1586.8	1592.3
20°	1564.8	1563.9	1562.9	1558.4	1571.2
22.5°	1540.0	1535.4	1536.3	1530.8	1543.7
25°	1513.4	1502.4	1505.2	1500.6	1512.5
27.5°	1483.1	1470.3	1472.1	1472.1	1476.7
30°	1444.6	1433.6	1432.7	1438.2	1438.2
32.5°	1409.8	1398.8	1393.3	1394.2	1396.0
35°	1367.6	1358.4	1346.5	1350.1	1352.0
37.5°	1320.8	1316.2	1302.4	1302.4	1308.9
40°	1273.1	1266.7	1256.6	1253.8	1258.4
42.5°	1225.4	1219.0	1208.9	1204.3	1211.6
45°	1171.3	1166.7	1156.6	1152.0	1164.9
47.5°	1123.6	1113.5	1107.1	1103.4	1112.6
50°	1072.2	1057.6	1046.5	1048.4	1058.5
52.5°	1013.5	999.8	984.2	987.8	993.3
55°	951.2	936.5	921.8	924.6	931.9
57.5°	891.5	876.9	853.9	858.5	864.0
60°	825.5	805.3	787.9	790.6	800.7
62.5°	755.8	739.3	721.9	723.7	732.9
65°	687.0	668.7	650.3	650.3	662.2
67.5°	611.8	598.9	578.8	578.8	586.1
70°	540.2	523.7	507.2	496.2	500.8
72.5°	467.8	447.6	434.8	407.2	395.3
75°	381.6	369.6	354.0	312.8	287.1
77.5°	303.6	297.2	266.9	223.8	212.8
80°	229.3	224.7	187.1	180.7	180.7
82.5°	156.8	152.3	141.3	130.2	128.4
85°	92.6	84.4	83.5	77.0	76.1
87.5°	30.3	34.9	33.0	33.9	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)