

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: P296401

Luminaire Tested: **22RLN-LD5-44-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-11)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22RLN-LD5-44-UNV-L83050-W2A1-U-4500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4648.0 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

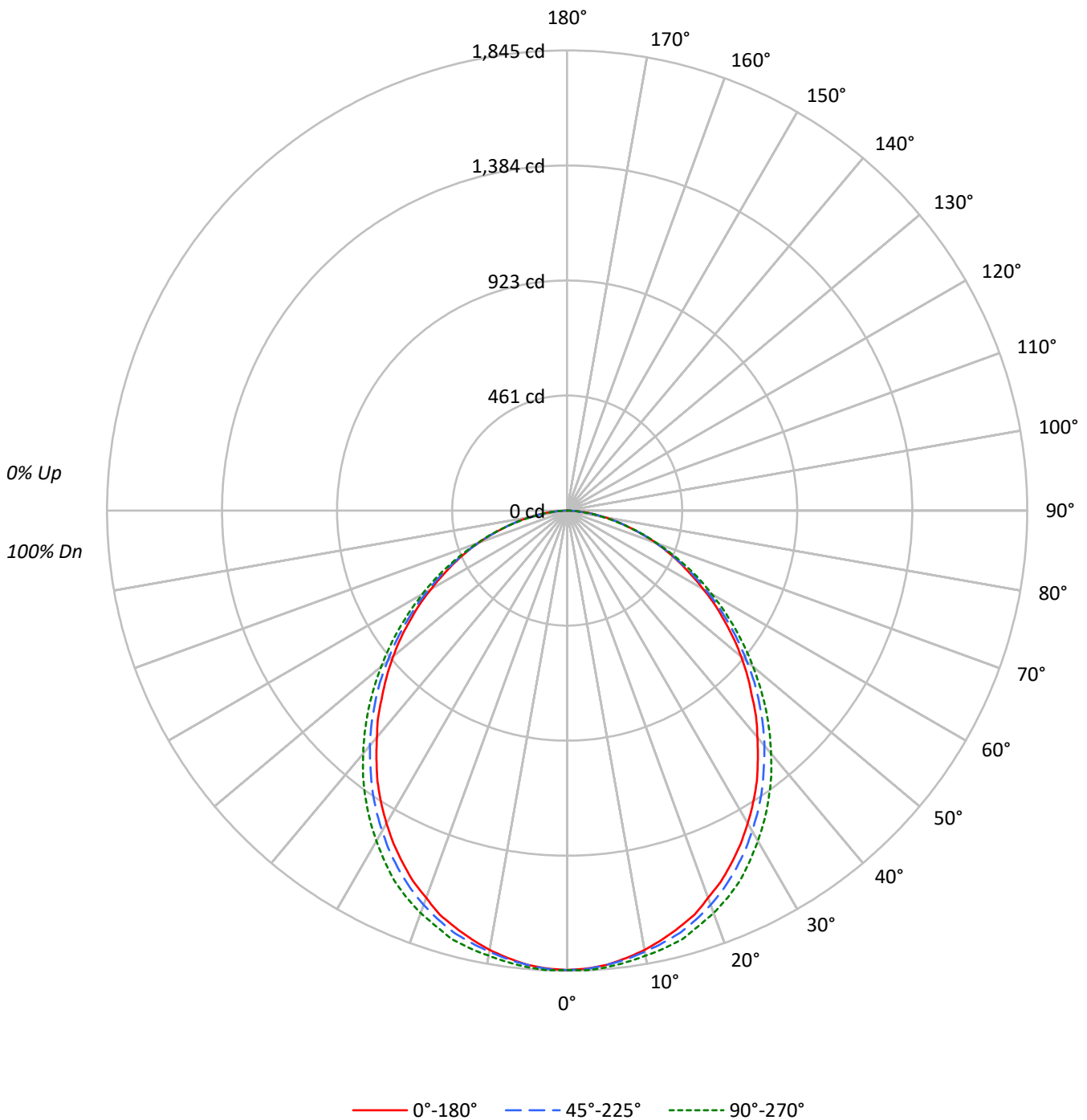
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71																												
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61																												
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52																												
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	46																												
6	71	58	50	43	70	57	49	43	56	48	43	54	47	42	52	47	42	40																												
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	38	36																												
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32																												
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29																												
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4958	4958	4958
5°	4939	4939	4964
10°	4889	4908	4952
15°	4823	4881	4958
20°	4732	4818	4918
25°	4631	4727	4865
30°	4501	4609	4753
35°	4355	4477	4629
40°	4168	4323	4469
45°	3986	4145	4286
50°	3813	3939	4075
55°	3610	3719	3849
60°	3392	3480	3604
65°	3188	3246	3350
70°	2972	2972	3027
75°	2650	2650	2650
80°	2334	2263	2263
85°	1862	1788	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.7	3.7
10°-20°	494.0	10.6
20°-30°	733.8	15.8
30°-40°	851.6	18.3
40°-50°	838.6	18.0
50°-60°	709.6	15.3
60°-70°	506.1	10.9
70°-80°	272.0	5.9
80°-90°	68.5	1.5
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°	1401.5	30.2
0°-40°	2253.2	48.5
0°-60°	3801.4	81.8
0°-90°	4648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1842	1842	1842	1842	1842	
5°	1828	1828	1828	1835	1838	173
15°	1731	1736	1752	1768	1780	488
25°	1560	1564	1592	1622	1638	718
35°	1326	1328	1363	1395	1409	827
45°	1048	1054	1089	1115	1126	810
55°	769	772	793	813	820	689
65°	501	501	510	519	526	497
75°	255	253	255	255	255	274
85°	60	58	58	53	53	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1842.4	1842.4	1842.4	1842.4	1842.4
2.5°	1837.7	1837.7	1840.0	1842.4	1844.7
5°	1828.5	1828.5	1828.5	1835.4	1837.7
7.5°	1809.9	1812.2	1814.6	1821.5	1826.1
10°	1789.1	1791.4	1796.0	1807.6	1812.2
12.5°	1761.3	1768.2	1775.2	1791.4	1798.3
15°	1731.1	1735.8	1752.0	1768.2	1779.8
17.5°	1698.7	1701.0	1719.5	1742.7	1747.4
20°	1652.3	1659.3	1682.5	1705.6	1717.2
22.5°	1610.6	1615.3	1640.7	1670.9	1680.1
25°	1559.6	1564.3	1592.1	1622.2	1638.4
27.5°	1506.3	1511.0	1541.1	1573.5	1585.1
30°	1448.4	1453.0	1483.2	1517.9	1529.5
32.5°	1388.1	1392.8	1425.2	1455.4	1471.6
35°	1325.6	1327.9	1362.7	1395.1	1409.0
37.5°	1256.1	1263.0	1295.4	1327.9	1344.1
40°	1186.5	1193.5	1230.6	1260.7	1272.3
42.5°	1121.6	1130.9	1161.0	1188.8	1200.4
45°	1047.5	1054.4	1089.2	1114.7	1126.3
47.5°	980.3	987.2	1017.4	1042.8	1049.8
50°	910.8	915.4	940.9	964.1	973.3
52.5°	841.2	843.5	866.7	889.9	896.8
55°	769.4	771.7	792.6	813.4	820.4
57.5°	702.2	702.2	720.7	736.9	743.9
60°	630.3	630.3	646.6	662.8	669.7
62.5°	563.1	563.1	579.4	590.9	600.2
65°	500.6	500.6	509.8	519.1	526.1
67.5°	440.3	433.4	442.6	454.2	451.9
70°	377.7	370.8	377.7	382.4	384.7
72.5°	315.2	310.5	315.2	317.5	322.1
75°	254.9	252.6	254.9	254.9	254.9
77.5°	203.9	197.0	201.6	199.3	197.0
80°	150.6	148.3	146.0	143.7	146.0
82.5°	104.3	102.0	102.0	97.3	97.3
85°	60.3	57.9	57.9	53.3	53.3
87.5°	23.2	23.2	20.9	20.9	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)