

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: P296454

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296454
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-L82765-W2A1-U-5500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4560.0 lumens
Efficiency: N/A
Efficacy: 124.4 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

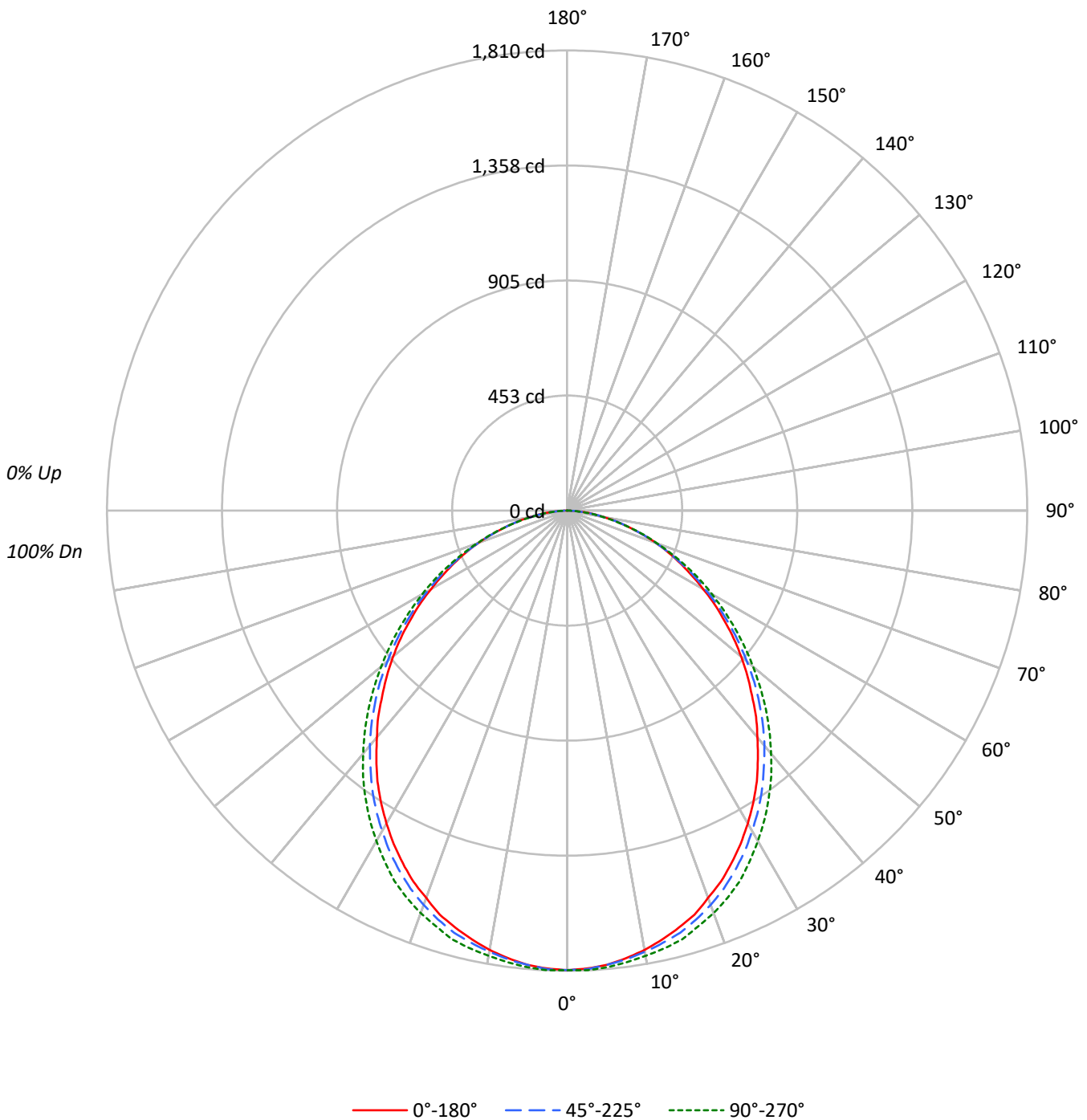
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4864	4864	4864
5°	4846	4846	4870
10°	4796	4815	4858
15°	4732	4788	4864
20°	4642	4727	4824
25°	4543	4638	4773
30°	4415	4521	4663
35°	4272	4392	4541
40°	4089	4241	4385
45°	3911	4067	4205
50°	3741	3864	3998
55°	3541	3648	3776
60°	3328	3414	3536
65°	3127	3185	3286
70°	2916	2916	2969
75°	2600	2600	2600
80°	2290	2219	2219
85°	1825	1754	1615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	3.7
10°-20°	484.6	10.6
20°-30°	719.9	15.8
30°-40°	835.5	18.3
40°-50°	822.7	18.0
50°-60°	696.2	15.3
60°-70°	496.5	10.9
70°-80°	266.8	5.9
80°-90°	67.2	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°	1375.0	30.2
0°-40°	2210.5	48.5
0°-60°	3729.4	81.8
0°-90°	4560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1794	1794	1794	1801	1803	170
15°	1698	1703	1719	1735	1746	479
25°	1530	1535	1562	1592	1607	704
35°	1300	1303	1337	1369	1382	812
45°	1028	1034	1069	1094	1105	795
55°	755	757	778	798	805	676
65°	491	491	500	509	516	487
75°	250	248	250	250	250	269
85°	59	57	57	52	52	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.5	1807.5	1807.5	1807.5	1807.5
2.5°	1802.9	1802.9	1805.2	1807.5	1809.8
5°	1793.8	1793.8	1793.8	1800.7	1802.9
7.5°	1775.7	1777.9	1780.2	1787.0	1791.6
10°	1755.2	1757.5	1762.0	1773.4	1777.9
12.5°	1727.9	1734.7	1741.6	1757.5	1764.3
15°	1698.4	1702.9	1718.8	1734.7	1746.1
17.5°	1666.5	1668.8	1687.0	1709.7	1714.3
20°	1621.1	1627.9	1650.6	1673.3	1684.7
22.5°	1580.1	1584.7	1609.7	1639.2	1648.3
25°	1530.1	1534.7	1561.9	1591.5	1607.4
27.5°	1477.8	1482.4	1511.9	1543.8	1555.1
30°	1421.0	1425.5	1455.1	1489.2	1500.6
32.5°	1361.9	1366.4	1398.2	1427.8	1443.7
35°	1300.5	1302.8	1336.9	1368.7	1382.3
37.5°	1232.3	1239.1	1270.9	1302.8	1318.7
40°	1164.1	1170.9	1207.3	1236.8	1248.2
42.5°	1100.4	1109.5	1139.1	1166.3	1177.7
45°	1027.7	1034.5	1068.6	1093.6	1105.0
47.5°	961.7	968.5	998.1	1023.1	1029.9
50°	893.5	898.1	923.1	945.8	954.9
52.5°	825.3	827.6	850.3	873.0	879.9
55°	754.8	757.1	777.6	798.0	804.8
57.5°	688.9	688.9	707.1	723.0	729.8
60°	618.4	618.4	634.3	650.2	657.1
62.5°	552.5	552.5	568.4	579.8	588.9
65°	491.1	491.1	500.2	509.3	516.1
67.5°	432.0	425.2	434.3	445.6	443.3
70°	370.6	363.8	370.6	375.1	377.4
72.5°	309.2	304.7	309.2	311.5	316.0
75°	250.1	247.8	250.1	250.1	250.1
77.5°	200.1	193.3	197.8	195.5	193.3
80°	147.8	145.5	143.2	141.0	143.2
82.5°	102.3	100.0	100.0	95.5	95.5
85°	59.1	56.8	56.8	52.3	52.3
87.5°	22.7	22.7	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)