

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: P296455

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296455
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-5700K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4572.0 lumens
Efficiency: N/A
Efficacy: 124.8 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

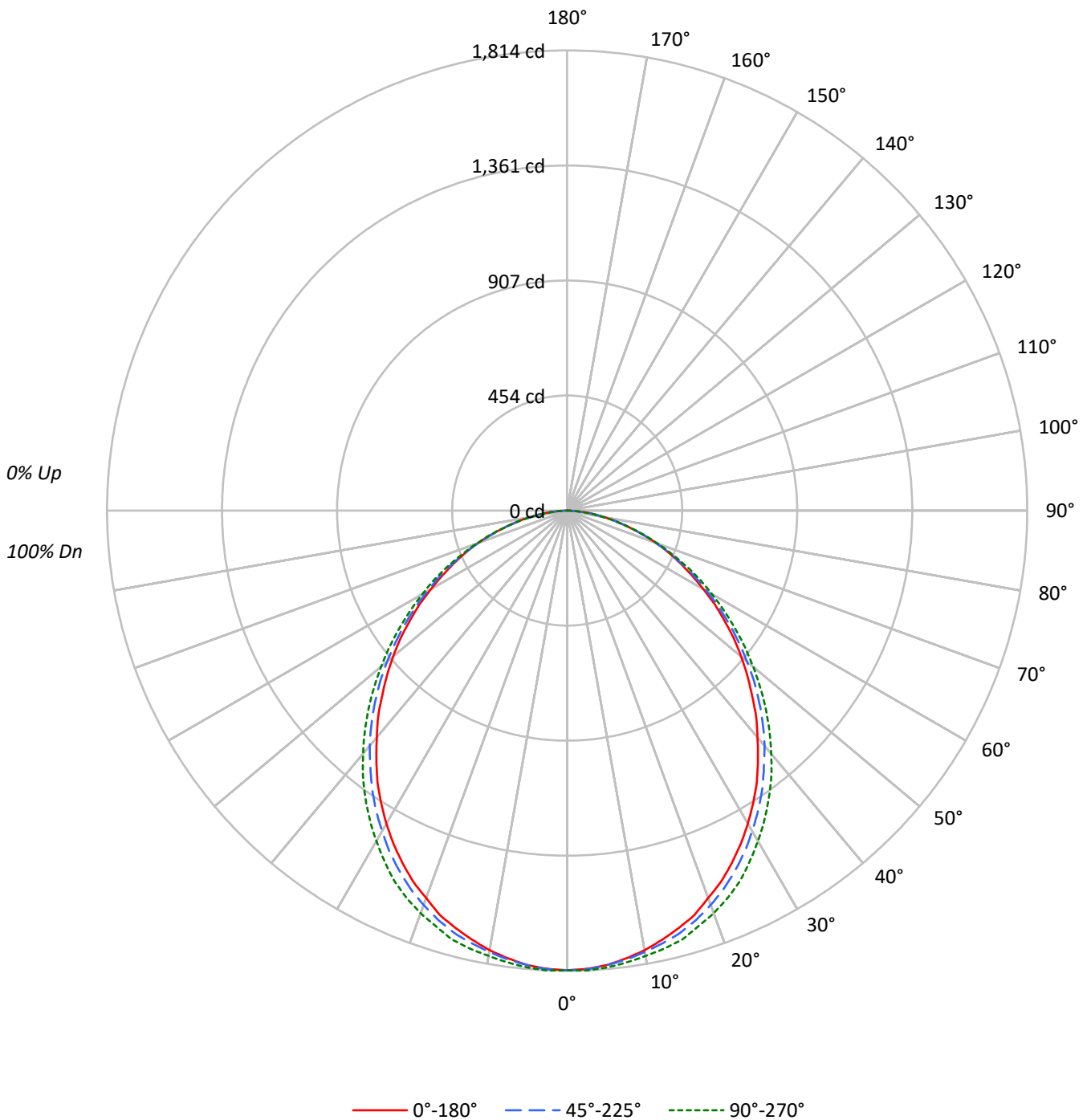
Input Watts (W): 36.642
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4877	4877	4877
5°	4858	4858	4883
10°	4809	4827	4871
15°	4744	4801	4877
20°	4654	4739	4837
25°	4555	4650	4785
30°	4427	4533	4675
35°	4283	4403	4553
40°	4100	4252	4396
45°	3921	4077	4216
50°	3751	3875	4008
55°	3551	3658	3786
60°	3337	3423	3546
65°	3135	3193	3295
70°	2924	2924	2977
75°	2608	2608	2608
80°	2297	2225	2225
85°	1831	1760	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.9	3.7
10°-20°	485.9	10.6
20°-30°	721.8	15.8
30°-40°	837.7	18.3
40°-50°	824.9	18.0
50°-60°	698.0	15.3
60°-70°	497.8	10.9
70°-80°	267.5	5.9
80°-90°	67.4	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°	1378.6	30.2
0°-40°	2216.3	48.5
0°-60°	3739.2	81.8
0°-90°	4572.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4572.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1812	1812	1812	1812	1812	
5°	1799	1799	1799	1805	1808	170
15°	1703	1707	1723	1739	1751	480
25°	1534	1539	1566	1596	1612	706
35°	1304	1306	1340	1372	1386	814
45°	1030	1037	1071	1096	1108	797
55°	757	759	780	800	807	678
65°	492	492	502	511	518	489
75°	251	248	251	251	251	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°	1812.2	1812.2	1812.2	1812.2	1812.2
2.5°	1807.7	1807.7	1810.0	1812.2	1814.5
5°	1798.6	1798.6	1798.6	1805.4	1807.7
7.5°	1780.3	1782.6	1784.9	1791.7	1796.3
10°	1759.8	1762.1	1766.6	1778.0	1782.6
12.5°	1732.5	1739.3	1746.1	1762.1	1768.9
15°	1702.8	1707.4	1723.3	1739.3	1750.7
17.5°	1670.9	1673.2	1691.4	1714.2	1718.8
20°	1625.3	1632.2	1655.0	1677.7	1689.1
22.5°	1584.3	1588.8	1613.9	1643.6	1652.7
25°	1534.1	1538.7	1566.0	1595.7	1611.6
27.5°	1481.7	1486.3	1515.9	1547.8	1559.2
30°	1424.7	1429.3	1458.9	1493.1	1504.5
32.5°	1365.4	1370.0	1401.9	1431.6	1447.5
35°	1303.9	1306.2	1340.4	1372.3	1386.0
37.5°	1235.5	1242.4	1274.3	1306.2	1322.1
40°	1167.1	1174.0	1210.4	1240.1	1251.5
42.5°	1103.3	1112.4	1142.1	1169.4	1180.8
45°	1030.4	1037.2	1071.4	1096.5	1107.9
47.5°	964.2	971.1	1000.7	1025.8	1032.6
50°	895.9	900.4	925.5	948.3	957.4
52.5°	827.5	829.8	852.6	875.3	882.2
55°	756.8	759.1	779.6	800.1	807.0
57.5°	690.7	690.7	708.9	724.9	731.7
60°	620.0	620.0	636.0	652.0	658.8
62.5°	553.9	553.9	569.9	581.3	590.4
65°	492.4	492.4	501.5	510.6	517.5
67.5°	433.1	426.3	435.4	446.8	444.5
70°	371.6	364.7	371.6	376.1	378.4
72.5°	310.0	305.5	310.0	312.3	316.9
75°	250.8	248.5	250.8	250.8	250.8
77.5°	200.6	193.8	198.3	196.0	193.8
80°	148.2	145.9	143.6	141.3	143.6
82.5°	102.6	100.3	100.3	95.7	95.7
85°	59.3	57.0	57.0	52.4	52.4
87.5°	22.8	22.8	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)