

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: P296456

Luminaire Tested: **22RLN-LD5-44-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296456
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-6500K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 123.2 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

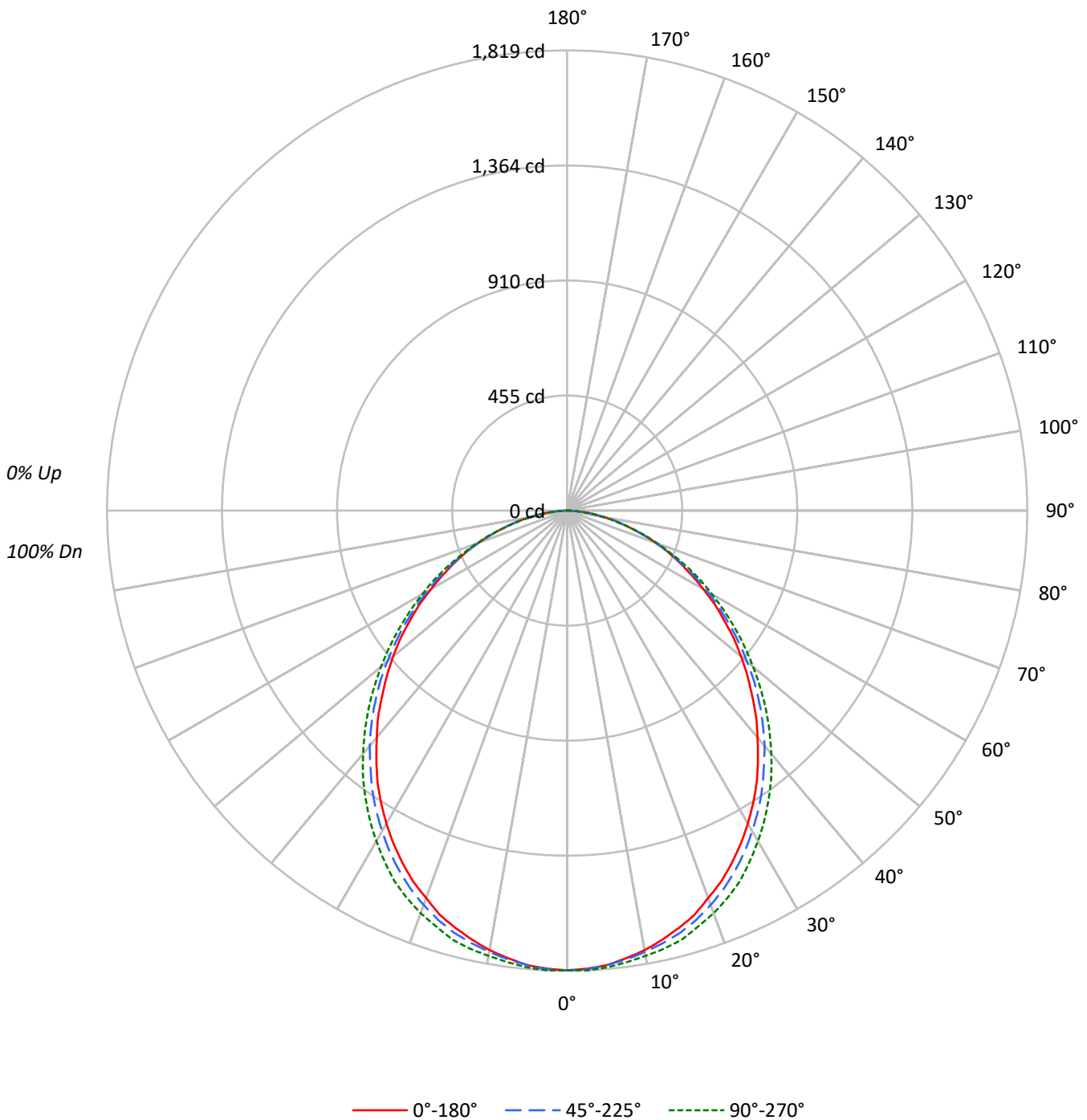
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4890	4890	4890
5°	4871	4871	4896
10°	4821	4840	4884
15°	4756	4814	4890
20°	4667	4752	4850
25°	4567	4662	4798
30°	4439	4545	4687
35°	4295	4415	4565
40°	4111	4263	4408
45°	3932	4088	4227
50°	3760	3885	4019
55°	3560	3667	3796
60°	3346	3432	3555
65°	3144	3202	3303
70°	2931	2931	2985
75°	2614	2614	2614
80°	2303	2232	2232
85°	1834	1763	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.4	3.7
10°-20°	487.2	10.6
20°-30°	723.7	15.8
30°-40°	839.9	18.3
40°-50°	827.0	18.0
50°-60°	699.9	15.3
60°-70°	499.1	10.9
70°-80°	268.2	5.9
80°-90°	67.6	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°	1382.3	30.2
0°-40°	2222.2	48.5
0°-60°	3749.1	81.8
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1803	1803	1803	1810	1812	171
15°	1707	1712	1728	1744	1755	481
25°	1538	1543	1570	1600	1616	708
35°	1307	1310	1344	1376	1390	816
45°	1033	1040	1074	1099	1111	799
55°	759	761	782	802	809	680
65°	494	494	503	512	519	490
75°	251	249	251	251	251	270
85°	59	57	57	53	53	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1817.0	1817.0	1817.0	1817.0	1817.0
2.5°	1812.4	1812.4	1814.7	1817.0	1819.3
5°	1803.3	1803.3	1803.3	1810.1	1812.4
7.5°	1785.0	1787.3	1789.6	1796.4	1801.0
10°	1764.4	1766.7	1771.3	1782.7	1787.3
12.5°	1737.0	1743.9	1750.7	1766.7	1773.6
15°	1707.3	1711.9	1727.9	1743.9	1755.3
17.5°	1675.3	1677.6	1695.9	1718.7	1723.3
20°	1629.6	1636.4	1659.3	1682.2	1693.6
22.5°	1588.4	1593.0	1618.2	1647.9	1657.0
25°	1538.2	1542.7	1570.2	1599.9	1615.9
27.5°	1485.6	1490.2	1519.9	1551.9	1563.3
30°	1428.5	1433.0	1462.7	1497.0	1508.5
32.5°	1369.0	1373.6	1405.6	1435.3	1451.3
35°	1307.3	1309.6	1343.9	1375.9	1389.6
37.5°	1238.8	1245.6	1277.6	1309.6	1325.6
40°	1170.2	1177.0	1213.6	1243.3	1254.8
42.5°	1106.2	1115.3	1145.1	1172.5	1183.9
45°	1033.1	1039.9	1074.2	1099.3	1110.8
47.5°	966.8	973.6	1003.3	1028.5	1035.3
50°	898.2	902.8	927.9	950.8	959.9
52.5°	829.6	831.9	854.8	877.6	884.5
55°	758.8	761.1	781.7	802.2	809.1
57.5°	692.5	692.5	710.8	726.8	733.7
60°	621.7	621.7	637.7	653.7	660.5
62.5°	555.4	555.4	571.4	582.8	592.0
65°	493.7	493.7	502.8	512.0	518.8
67.5°	434.3	427.4	436.5	448.0	445.7
70°	372.5	365.7	372.5	377.1	379.4
72.5°	310.8	306.3	310.8	313.1	317.7
75°	251.4	249.1	251.4	251.4	251.4
77.5°	201.1	194.3	198.8	196.6	194.3
80°	148.6	146.3	144.0	141.7	144.0
82.5°	102.8	100.6	100.6	96.0	96.0
85°	59.4	57.1	57.1	52.6	52.6
87.5°	22.9	22.9	20.6	20.6	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)