

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: P296400

Luminaire Tested: **22RLN-LD5-44-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296400
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-4000K
Description: RLN LED 2x2 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4604.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

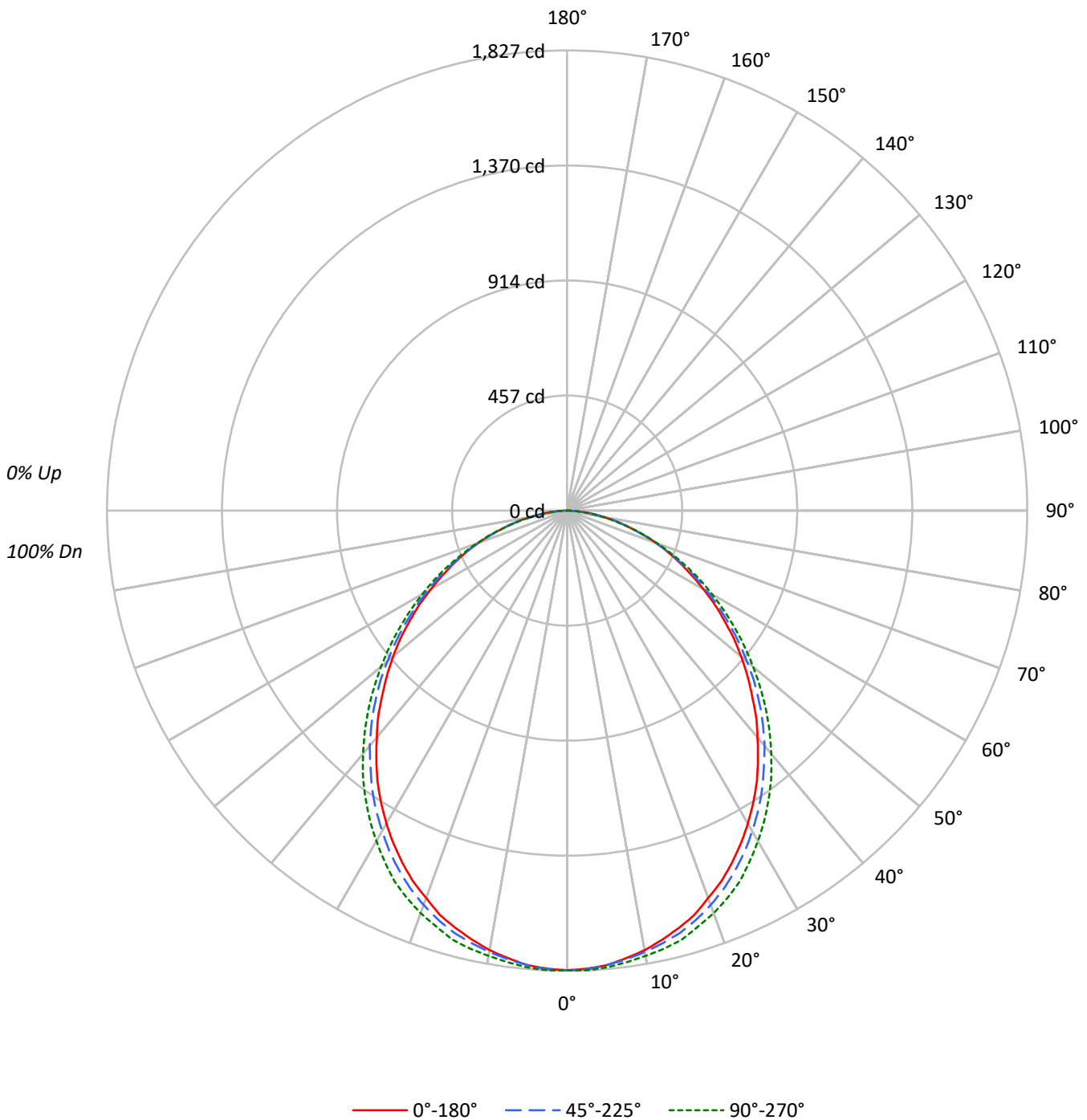
Input Watts (W): 36.456
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4911	4911	4911
5°	4893	4893	4917
10°	4842	4861	4905
15°	4777	4835	4911
20°	4687	4772	4871
25°	4587	4682	4819
30°	4458	4565	4708
35°	4313	4434	4585
40°	4129	4282	4427
45°	3949	4106	4246
50°	3777	3902	4036
55°	3575	3683	3812
60°	3360	3447	3570
65°	3157	3216	3318
70°	2944	2944	2998
75°	2625	2625	2625
80°	2312	2241	2241
85°	1843	1772	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.7
10°-20°	489.3	10.6
20°-30°	726.9	15.8
30°-40°	843.6	18.3
40°-50°	830.6	18.0
50°-60°	702.9	15.3
60°-70°	501.3	10.9
70°-80°	269.4	5.9
80°-90°	67.9	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°	1388.3	30.2
0°-40°	2231.9	48.5
0°-60°	3765.4	81.8
0°-90°	4604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1811	1811	1811	1818	1820	172
15°	1715	1719	1735	1752	1763	483
25°	1545	1550	1577	1607	1623	711
35°	1313	1315	1350	1382	1396	819
45°	1038	1044	1079	1104	1116	802
55°	762	764	785	806	813	683
65°	496	496	505	514	521	492
75°	252	250	252	252	252	271
85°	60	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°	1824.9	1824.9	1824.9	1824.9	1824.9
2.5°	1820.3	1820.3	1822.6	1824.9	1827.2
5°	1811.2	1811.2	1811.2	1818.0	1820.3
7.5°	1792.8	1795.1	1797.4	1804.3	1808.9
10°	1772.1	1774.4	1779.0	1790.5	1795.1
12.5°	1744.6	1751.5	1758.4	1774.4	1781.3
15°	1714.7	1719.3	1735.4	1751.5	1762.9
17.5°	1682.6	1684.9	1703.3	1726.2	1730.8
20°	1636.7	1643.6	1666.5	1689.5	1701.0
22.5°	1595.4	1600.0	1625.2	1655.1	1664.2
25°	1544.9	1549.5	1577.0	1606.9	1622.9
27.5°	1492.1	1496.7	1526.5	1558.6	1570.1
30°	1434.7	1439.3	1469.1	1503.6	1515.0
32.5°	1375.0	1379.6	1411.7	1441.6	1457.6
35°	1313.0	1315.3	1349.8	1381.9	1395.7
37.5°	1244.2	1251.0	1283.2	1315.3	1331.4
40°	1175.3	1182.2	1218.9	1248.8	1260.2
42.5°	1111.0	1120.2	1150.0	1177.6	1189.1
45°	1037.6	1044.5	1078.9	1104.1	1115.6
47.5°	971.0	977.9	1007.7	1033.0	1039.9
50°	902.1	906.7	932.0	954.9	964.1
52.5°	833.3	835.6	858.5	881.5	888.4
55°	762.1	764.4	785.1	805.7	812.6
57.5°	695.5	695.5	713.9	730.0	736.9
60°	624.4	624.4	640.4	656.5	663.4
62.5°	557.8	557.8	573.9	585.4	594.5
65°	495.8	495.8	505.0	514.2	521.1
67.5°	436.1	429.3	438.4	449.9	447.6
70°	374.2	367.3	374.2	378.8	381.1
72.5°	312.2	307.6	312.2	314.5	319.1
75°	252.5	250.2	252.5	252.5	252.5
77.5°	202.0	195.1	199.7	197.4	195.1
80°	149.2	146.9	144.6	142.3	144.6
82.5°	103.3	101.0	101.0	96.4	96.4
85°	59.7	57.4	57.4	52.8	52.8
87.5°	23.0	23.0	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)