

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: P296028

Luminaire Tested: **24RLN-LD5-42-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-085-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-42-UNV-L92765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3973.0 lumens
Efficiency: N/A
Efficacy: 132.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

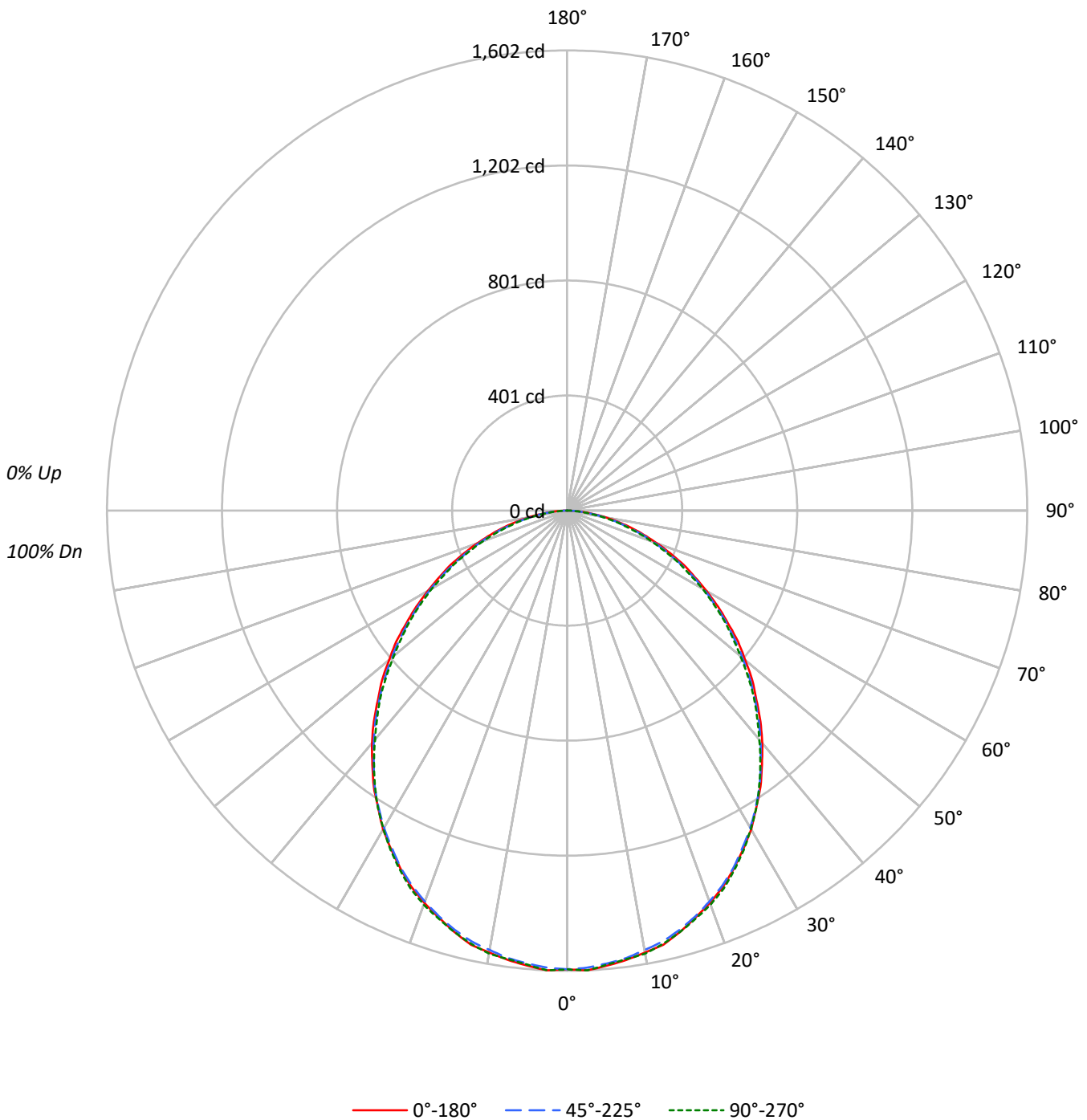
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2149	2149	2149
5°	2148	2138	2143
10°	2135	2122	2140
15°	2116	2105	2116
20°	2081	2074	2090
25°	2040	2036	2047
30°	1991	1981	1987
35°	1929	1920	1916
40°	1857	1839	1828
45°	1773	1756	1749
50°	1693	1666	1647
55°	1603	1578	1563
60°	1507	1480	1463
65°	1424	1371	1359
70°	1306	1256	1230
75°	1199	1126	1079
80°	1053	983	924
85°	851	792	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	3.8
10°-20°	427.2	10.8
20°-30°	631.9	15.9
30°-40°	729.3	18.4
40°-50°	712.3	17.9
50°-60°	601.5	15.1
60°-70°	428.4	10.8
70°-80°	232.0	5.8
80°-90°	59.9	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°	1209.8	30.4
0°-40°	1939.0	48.8
0°-60°	3252.8	81.9
0°-90°	3973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1597	1597	1597	1597	1597	
5°	1591	1591	1583	1587	1587	151
15°	1519	1512	1511	1518	1519	428
25°	1374	1366	1371	1377	1379	633
35°	1174	1165	1169	1165	1166	733
45°	932	924	923	919	919	721
55°	683	674	673	666	666	612
65°	447	438	431	426	427	441
75°	231	223	217	212	208	244
85°	55	54	51	45	44	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1597.0	1597.0	1597.0	1597.0	1597.0
2.5°	1602.2	1595.8	1593.2	1594.5	1602.2
5°	1590.6	1590.6	1582.9	1586.8	1586.8
7.5°	1577.8	1579.1	1571.4	1577.8	1575.2
10°	1562.4	1558.6	1553.5	1563.7	1566.3
12.5°	1548.3	1539.4	1536.8	1543.2	1544.5
15°	1518.8	1512.4	1511.2	1517.6	1518.8
17.5°	1485.5	1486.8	1481.7	1490.6	1489.4
20°	1453.5	1450.9	1448.4	1458.6	1459.9
22.5°	1417.6	1409.9	1412.5	1421.4	1424.0
25°	1374.0	1366.3	1371.4	1376.6	1379.1
27.5°	1327.9	1324.0	1322.7	1329.2	1331.7
30°	1281.7	1275.3	1275.3	1283.0	1279.2
32.5°	1225.3	1220.2	1222.8	1225.3	1226.6
35°	1174.1	1165.1	1168.9	1165.1	1166.4
37.5°	1113.8	1107.4	1106.1	1104.8	1104.8
40°	1057.4	1052.3	1047.2	1047.2	1040.8
42.5°	995.9	989.5	986.9	983.1	979.2
45°	931.8	924.1	922.8	919.0	919.0
47.5°	874.1	862.6	861.3	853.6	853.6
50°	808.8	801.1	796.0	790.8	787.0
52.5°	749.8	742.1	734.4	729.3	725.5
55°	683.2	674.2	672.9	666.5	666.5
57.5°	622.9	615.2	610.1	602.4	603.7
60°	560.1	552.4	549.9	543.5	543.5
62.5°	501.2	494.7	490.9	484.5	479.4
65°	447.3	438.4	430.7	425.5	426.8
67.5°	388.4	378.1	374.3	369.1	365.3
70°	332.0	325.6	319.2	312.7	312.7
72.5°	279.4	273.0	269.2	261.5	258.9
75°	230.7	223.0	216.6	211.5	207.6
77.5°	182.0	174.3	170.5	164.1	164.1
80°	135.9	130.7	126.9	124.3	119.2
82.5°	93.6	91.0	87.2	83.3	79.5
85°	55.1	53.8	51.3	44.9	43.6
87.5°	21.8	21.8	19.2	17.9	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)