

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: P295906

Luminaire Tested: **24RLN-LD5-50-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295906
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-LD5-50-UNV-L82765-W2A1-U-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5203.0 lumens
Efficiency: N/A
Efficacy: 144.6 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

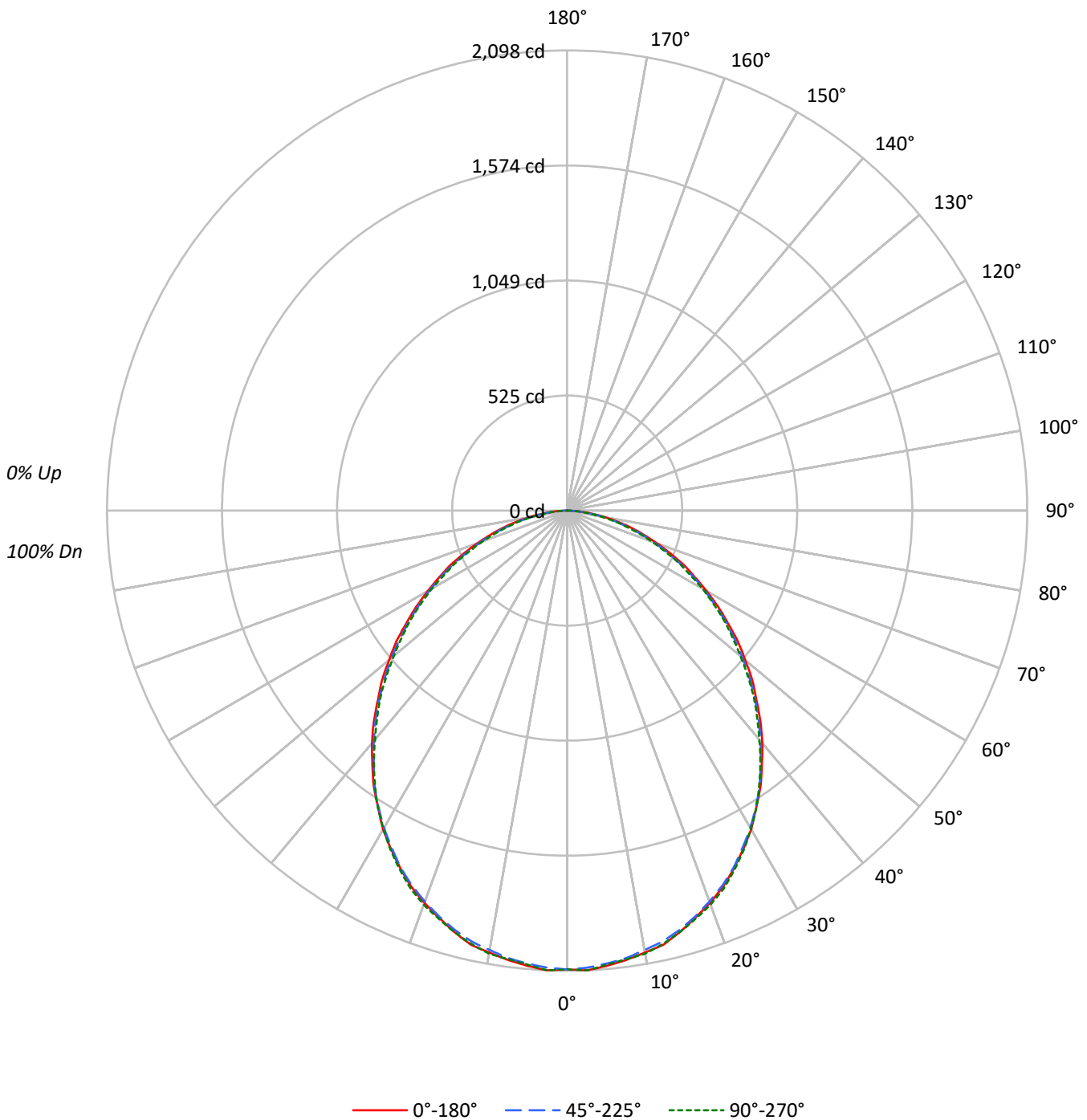
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2814	2814	2814
5°	2813	2800	2807
10°	2795	2779	2802
15°	2771	2757	2771
20°	2726	2716	2738
25°	2671	2666	2681
30°	2608	2595	2603
35°	2525	2514	2509
40°	2432	2409	2394
45°	2322	2300	2290
50°	2217	2182	2157
55°	2099	2067	2047
60°	1974	1938	1915
65°	1865	1796	1780
70°	1710	1644	1611
75°	1570	1475	1413
80°	1378	1288	1210
85°	1115	1036	881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.3	3.8
10°-20°	559.4	10.8
20°-30°	827.5	15.9
30°-40°	955.0	18.4
40°-50°	932.8	17.9
50°-60°	787.7	15.1
60°-70°	561.1	10.8
70°-80°	303.8	5.8
80°-90°	78.4	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°	1584.3	30.4
0°-40°	2539.3	48.8
0°-60°	4259.8	81.9
0°-90°	5203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2083	2083	2073	2078	2078	198
15°	1989	1981	1979	1987	1989	560
25°	1799	1789	1796	1803	1806	828
35°	1538	1526	1531	1526	1528	960
45°	1220	1210	1208	1204	1204	944
55°	895	883	881	873	873	802
65°	586	574	564	557	559	578
75°	302	292	284	277	272	320
85°	72	70	67	59	57	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.5	2091.5	2091.5	2091.5	2091.5
2.5°	2098.2	2089.8	2086.4	2088.1	2098.2
5°	2083.1	2083.1	2073.0	2078.0	2078.0
7.5°	2066.3	2068.0	2057.9	2066.3	2062.9
10°	2046.1	2041.1	2034.4	2047.8	2051.2
12.5°	2027.7	2015.9	2012.6	2021.0	2022.6
15°	1989.1	1980.7	1979.0	1987.4	1989.1
17.5°	1945.4	1947.1	1940.4	1952.1	1950.5
20°	1903.5	1900.1	1896.7	1910.2	1911.9
22.5°	1856.5	1846.4	1849.7	1861.5	1864.9
25°	1799.4	1789.3	1796.0	1802.7	1806.1
27.5°	1739.0	1733.9	1732.3	1740.6	1744.0
30°	1678.5	1670.1	1670.1	1680.2	1675.2
32.5°	1604.7	1598.0	1601.3	1604.7	1606.4
35°	1537.5	1525.8	1530.8	1525.8	1527.5
37.5°	1458.6	1450.3	1448.6	1446.9	1446.9
40°	1384.8	1378.1	1371.4	1371.4	1363.0
42.5°	1304.2	1295.8	1292.5	1287.4	1282.4
45°	1220.3	1210.2	1208.5	1203.5	1203.5
47.5°	1144.8	1129.7	1128.0	1117.9	1117.9
50°	1059.2	1049.1	1042.4	1035.7	1030.6
52.5°	981.9	971.9	961.8	955.1	950.1
55°	894.7	882.9	881.2	872.8	872.8
57.5°	815.8	805.7	799.0	788.9	790.6
60°	733.5	723.4	720.1	711.7	711.7
62.5°	656.3	647.9	642.9	634.5	627.8
65°	585.8	574.1	564.0	557.3	559.0
67.5°	508.6	495.2	490.1	483.4	478.4
70°	434.7	426.3	418.0	409.6	409.6
72.5°	365.9	357.5	352.5	342.4	339.1
75°	302.1	292.1	283.7	277.0	271.9
77.5°	238.4	228.3	223.2	214.9	214.9
80°	177.9	171.2	166.2	162.8	156.1
82.5°	122.5	119.2	114.1	109.1	104.1
85°	72.2	70.5	67.1	58.7	57.1
87.5°	28.5	28.5	25.2	23.5	21.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)