

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: P296364

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296364
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36059-R2)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24RLN-LD5-80-RDP-UNV-L92765-W2A1-U-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5239.0 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

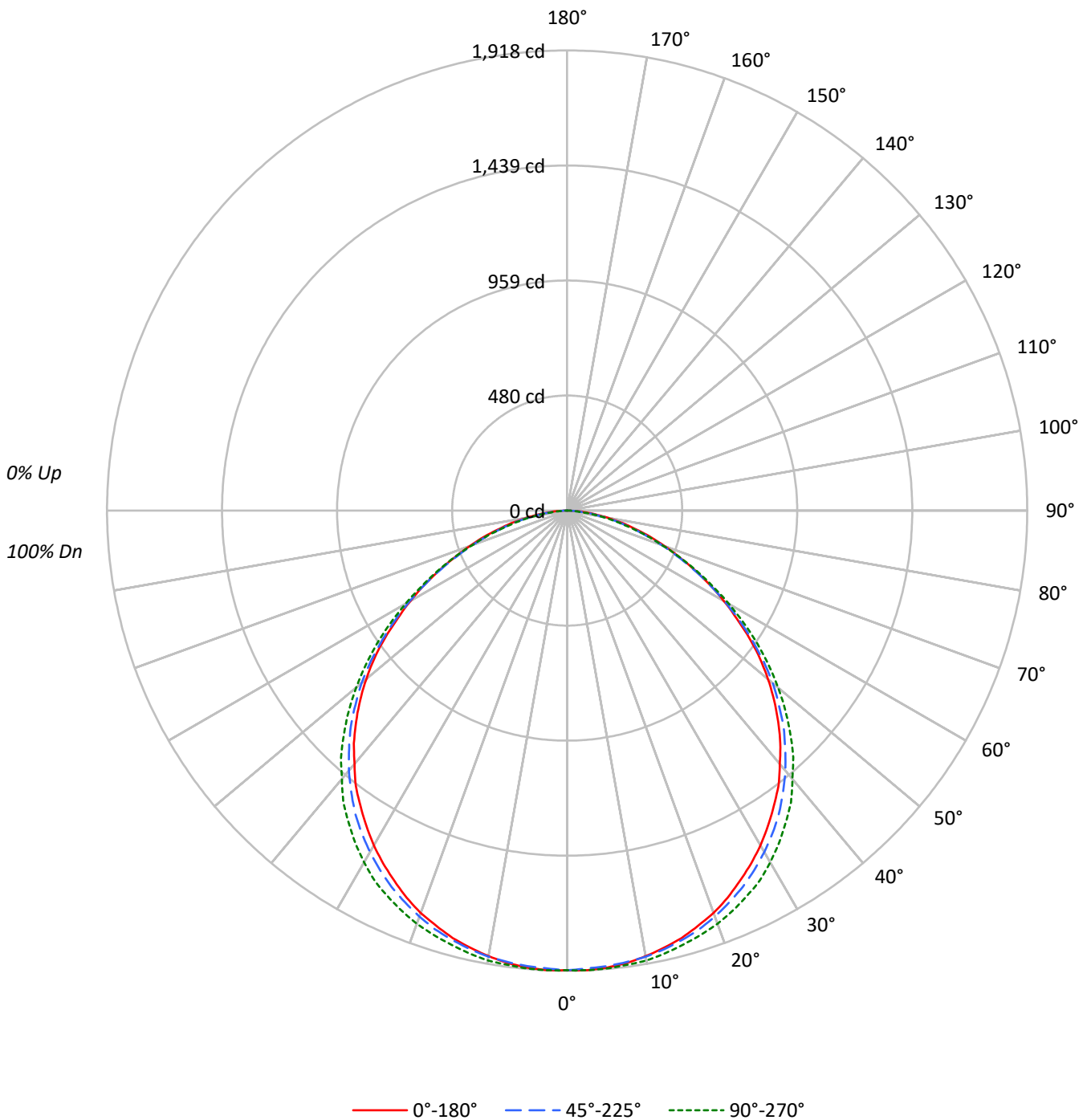
Input Watts (W): 60.543
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2578	2578	2578
5°	2582	2574	2588
10°	2577	2580	2601
15°	2569	2580	2608
20°	2555	2578	2624
25°	2529	2570	2632
30°	2504	2554	2631
35°	2468	2530	2608
40°	2423	2485	2566
45°	2367	2428	2504
50°	2288	2342	2405
55°	2177	2205	2270
60°	2032	2043	2097
65°	1867	1854	1898
70°	1697	1650	1657
75°	1509	1426	1416
80°	1309	1170	1140
85°	1074	829	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	3.5
10°-20°	523.8	10.0
20°-30°	799.6	15.3
30°-40°	963.9	18.4
40°-50°	983.0	18.8
50°-60°	841.3	16.1
60°-70°	579.5	11.1
70°-80°	297.1	5.7
80°-90°	69.1	1.3
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°	1505.1	28.7
0°-40°	2469.0	47.1
0°-60°	4293.3	81.9
0°-90°	5239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5239.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1916	1916	1916	1916	1916	
5°	1912	1908	1906	1912	1916	182
15°	1844	1842	1852	1866	1872	520
25°	1703	1709	1731	1761	1773	785
35°	1502	1508	1540	1574	1588	940
45°	1244	1246	1276	1308	1316	959
55°	928	922	940	960	968	828
65°	586	572	582	586	596	583
75°	290	278	274	274	272	313
85°	70	62	54	48	42	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1915.9	1915.9	1915.9	1915.9	1915.9
2.5°	1917.9	1913.9	1910.0	1913.9	1917.9
5°	1911.9	1908.0	1906.0	1911.9	1915.9
7.5°	1902.0	1898.0	1898.0	1906.0	1910.0
10°	1886.1	1884.1	1888.1	1896.0	1904.0
12.5°	1866.2	1866.2	1872.2	1882.1	1890.1
15°	1844.4	1842.4	1852.3	1866.2	1872.2
17.5°	1814.6	1816.5	1830.5	1846.4	1854.3
20°	1784.7	1786.7	1800.6	1822.5	1832.4
22.5°	1747.0	1751.0	1766.9	1794.7	1804.6
25°	1703.3	1709.2	1731.1	1760.9	1772.8
27.5°	1659.5	1665.5	1689.4	1723.1	1739.0
30°	1611.8	1619.8	1643.6	1679.4	1693.3
32.5°	1558.2	1564.1	1594.0	1629.7	1643.6
35°	1502.5	1508.5	1540.3	1574.1	1588.0
37.5°	1446.9	1446.9	1478.7	1518.4	1532.3
40°	1379.3	1381.3	1415.1	1452.8	1460.8
42.5°	1315.7	1315.7	1345.5	1381.3	1395.2
45°	1244.2	1246.1	1276.0	1307.8	1315.7
47.5°	1170.6	1170.6	1196.5	1226.3	1234.2
50°	1093.1	1089.1	1118.9	1142.8	1148.8
52.5°	1013.6	1007.6	1031.5	1051.4	1059.3
55°	928.1	922.2	940.1	959.9	967.9
57.5°	838.7	830.8	850.6	868.5	872.5
60°	755.2	743.3	759.2	769.2	779.1
62.5°	671.8	657.9	669.8	675.7	683.7
65°	586.3	572.4	582.3	586.3	596.2
67.5°	504.8	494.9	496.9	502.8	506.8
70°	431.3	419.4	419.4	419.4	421.3
72.5°	363.7	345.8	343.8	345.8	345.8
75°	290.2	278.2	274.3	274.3	272.3
77.5°	232.5	216.6	214.6	210.7	206.7
80°	168.9	155.0	151.0	149.1	147.1
82.5°	117.3	105.3	101.4	97.4	91.4
85°	69.6	61.6	53.7	47.7	41.7
87.5°	25.8	23.8	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)