

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: P296274

Luminaire Tested: **24RLN-LD5-74-RDP-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296274
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-LD5-74-RDP-UNV-L93050-W2A1-U-3500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5240.0 lumens
Efficiency: N/A
Efficacy: 93.4 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

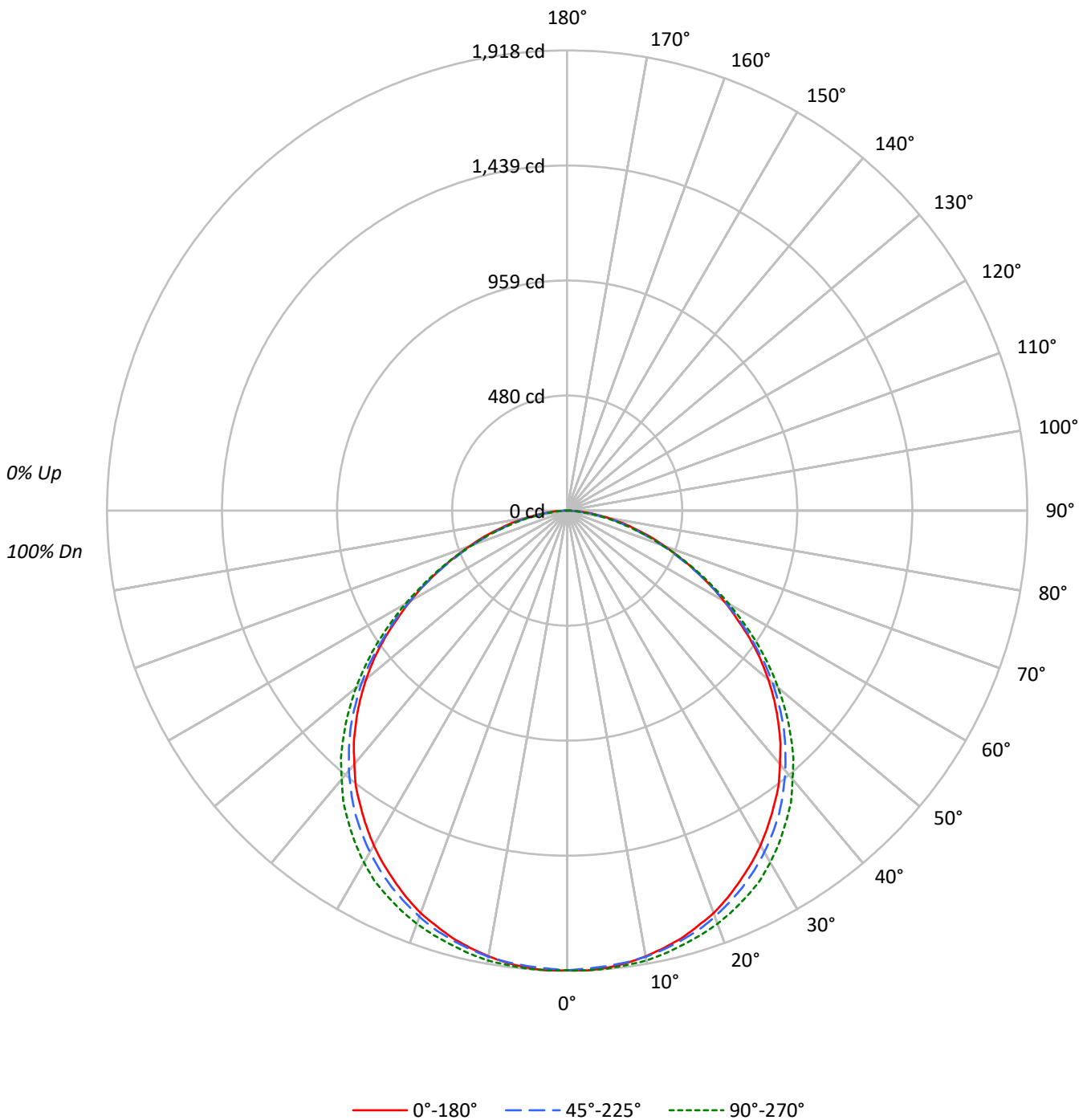
Input Watts (W): 56.079
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2583	2575	2588
10°	2577	2580	2602
15°	2570	2581	2608
20°	2556	2579	2624
25°	2529	2570	2632
30°	2505	2554	2631
35°	2468	2530	2609
40°	2423	2486	2566
45°	2368	2428	2504
50°	2289	2343	2405
55°	2178	2206	2271
60°	2033	2044	2097
65°	1867	1854	1899
70°	1697	1650	1658
75°	1509	1426	1416
80°	1309	1171	1140
85°	1074	829	644



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	3.5
10°-20°	523.9	10.0
20°-30°	799.7	15.3
30°-40°	964.1	18.4
40°-50°	983.2	18.8
50°-60°	841.4	16.1
60°-70°	579.6	11.1
70°-80°	297.1	5.7
80°-90°	69.2	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°	1505.4	28.7
0°-40°	2469.5	47.1
0°-60°	4294.1	81.9
0°-90°	5240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5240.0	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°	1845	1843	1853	1867	1873	520
25°	1704	1710	1731	1761	1773	786
35°	1503	1509	1541	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°	1916.3	1916.3	1916.3	1916.3	1916.3
2.5°	1918.3	1914.3	1910.3	1914.3	1918.3
5°	1912.3	1908.3	1906.3	1912.3	1916.3
7.5°	1902.4	1898.4	1898.4	1906.3	1910.3
10°	1886.5	1884.5	1888.5	1896.4	1904.4
12.5°	1866.6	1866.6	1872.6	1882.5	1890.4
15°	1844.7	1842.7	1852.7	1866.6	1872.6
17.5°	1814.9	1816.9	1830.8	1846.7	1854.7
20°	1785.1	1787.1	1801.0	1822.9	1832.8
22.5°	1747.3	1751.3	1767.2	1795.0	1805.0
25°	1703.6	1709.6	1731.4	1761.2	1773.2
27.5°	1659.9	1665.8	1689.7	1723.5	1739.4
30°	1612.1	1620.1	1644.0	1679.7	1693.6
32.5°	1558.5	1564.4	1594.3	1630.0	1644.0
35°	1502.8	1508.8	1540.6	1574.4	1588.3
37.5°	1447.2	1447.2	1479.0	1518.7	1532.6
40°	1379.6	1381.6	1415.3	1453.1	1461.1
42.5°	1316.0	1316.0	1345.8	1381.6	1395.5
45°	1244.4	1246.4	1276.2	1308.0	1316.0
47.5°	1170.8	1170.8	1196.7	1226.5	1234.5
50°	1093.3	1089.3	1119.2	1143.0	1149.0
52.5°	1013.8	1007.8	1031.7	1051.6	1059.5
55°	928.3	922.4	940.3	960.1	968.1
57.5°	838.9	830.9	850.8	868.7	872.7
60°	755.4	743.5	759.4	769.3	779.2
62.5°	671.9	658.0	669.9	675.9	683.8
65°	586.4	572.5	582.4	586.4	596.4
67.5°	504.9	495.0	497.0	502.9	506.9
70°	431.4	419.4	419.4	419.4	421.4
72.5°	363.8	345.9	343.9	345.9	345.9
75°	290.2	278.3	274.3	274.3	272.3
77.5°	232.6	216.7	214.7	210.7	206.7
80°	169.0	155.1	151.1	149.1	147.1
82.5°	117.3	105.4	101.4	97.4	91.4
85°	69.6	61.6	53.7	47.7	41.7
87.5°	25.8	23.9	19.9	17.9	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)