

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: P296352

Luminaire Tested: **24RLN-LD5-67-RDP-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296352
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-LD5-67-RDP-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5213.0 lumens
Efficiency: N/A
Efficacy: 104.2 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

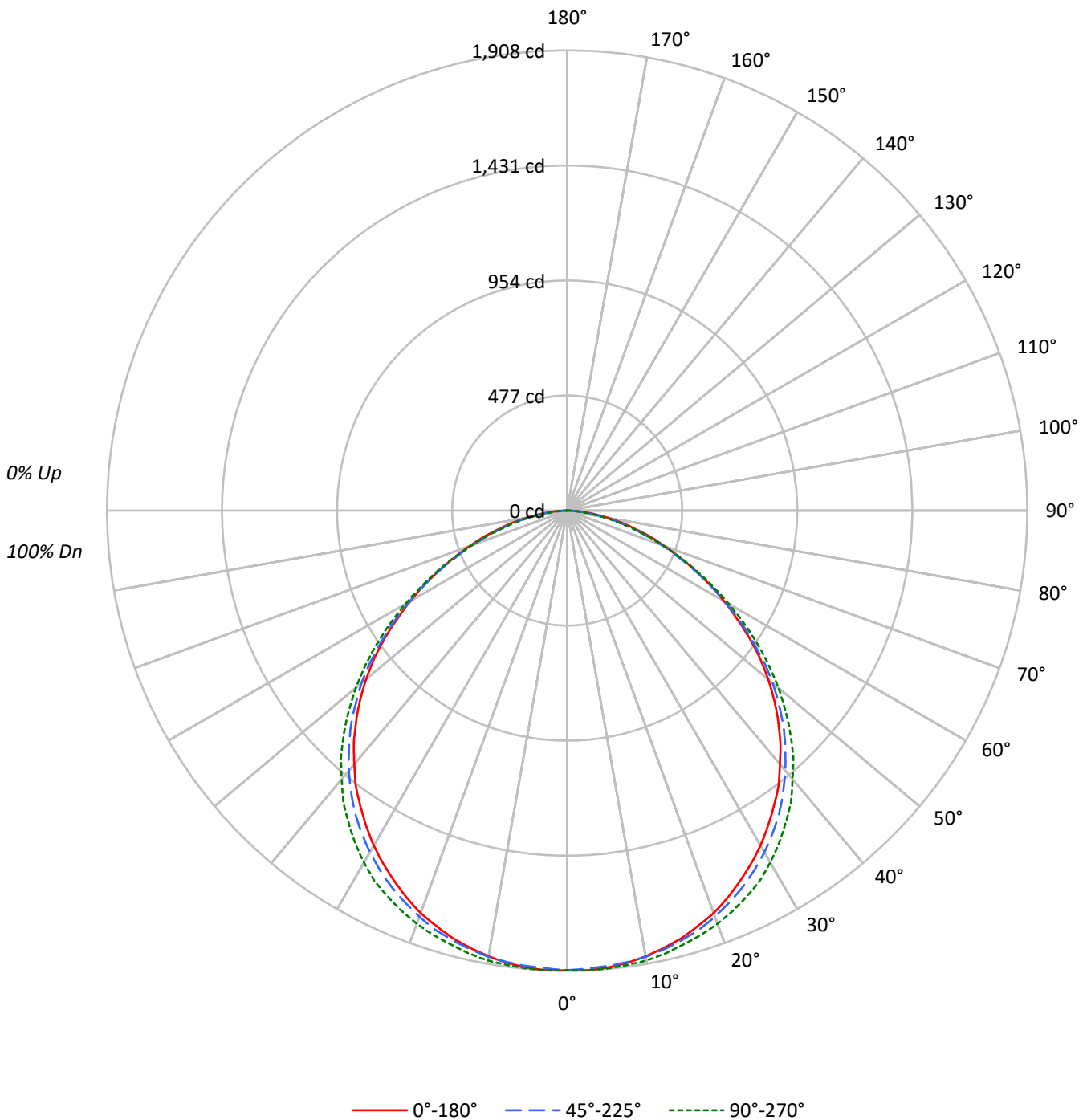
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2565	2565	2565
5°	2570	2561	2575
10°	2564	2567	2588
15°	2556	2567	2595
20°	2543	2565	2611
25°	2516	2557	2619
30°	2492	2541	2618
35°	2456	2517	2595
40°	2411	2473	2553
45°	2356	2416	2491
50°	2277	2331	2393
55°	2166	2194	2259
60°	2022	2033	2086
65°	1857	1845	1889
70°	1688	1642	1650
75°	1501	1419	1408
80°	1303	1165	1134
85°	1068	824	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.8	3.5
10°-20°	521.2	10.0
20°-30°	795.6	15.3
30°-40°	959.1	18.4
40°-50°	978.1	18.8
50°-60°	837.1	16.1
60°-70°	576.6	11.1
70°-80°	295.6	5.7
80°-90°	68.8	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°	1497.6	28.7
0°-40°	2456.8	47.1
0°-60°	4272.0	81.9
0°-90°	5213.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5213.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1906	1906	1906	1906	1906	
5°	1902	1898	1896	1902	1906	181
15°	1835	1833	1843	1857	1863	518
25°	1695	1701	1722	1752	1764	782
35°	1495	1501	1533	1566	1580	935
45°	1238	1240	1270	1301	1309	954
55°	924	918	935	955	963	824
65°	583	570	579	583	593	580
75°	289	277	273	273	271	311
85°	69	61	53	48	42	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1906.4	1906.4	1906.4	1906.4	1906.4
2.5°	1908.4	1904.4	1900.5	1904.4	1908.4
5°	1902.5	1898.5	1896.5	1902.5	1906.4
7.5°	1892.6	1888.6	1888.6	1896.5	1900.5
10°	1876.7	1874.8	1878.7	1886.6	1894.5
12.5°	1857.0	1857.0	1862.9	1872.8	1880.7
15°	1835.2	1833.2	1843.1	1857.0	1862.9
17.5°	1805.6	1807.5	1821.4	1837.2	1845.1
20°	1775.9	1777.9	1791.7	1813.5	1823.4
22.5°	1738.3	1742.3	1758.1	1785.8	1795.7
25°	1694.8	1700.7	1722.5	1752.2	1764.0
27.5°	1651.3	1657.2	1681.0	1714.6	1730.4
30°	1603.8	1611.8	1635.5	1671.1	1684.9
32.5°	1550.4	1556.4	1586.0	1621.6	1635.5
35°	1495.1	1501.0	1532.6	1566.3	1580.1
37.5°	1439.7	1439.7	1471.3	1510.9	1524.7
40°	1372.5	1374.4	1408.1	1445.6	1453.5
42.5°	1309.2	1309.2	1338.8	1374.4	1388.3
45°	1238.0	1240.0	1269.6	1301.3	1309.2
47.5°	1164.8	1164.8	1190.5	1220.2	1228.1
50°	1087.7	1083.7	1113.4	1137.1	1143.1
52.5°	1008.6	1002.6	1026.4	1046.2	1054.1
55°	923.5	917.6	935.4	955.2	963.1
57.5°	834.6	826.6	846.4	864.2	868.2
60°	751.5	739.6	755.4	765.3	775.2
62.5°	668.4	654.6	666.5	672.4	680.3
65°	583.4	569.6	579.4	583.4	593.3
67.5°	502.3	492.4	494.4	500.3	504.3
70°	429.1	417.3	417.3	417.3	419.3
72.5°	361.9	344.1	342.1	344.1	344.1
75°	288.7	276.9	272.9	272.9	270.9
77.5°	231.4	215.6	213.6	209.6	205.7
80°	168.1	154.3	150.3	148.3	146.3
82.5°	116.7	104.8	100.9	96.9	91.0
85°	69.2	61.3	53.4	47.5	41.5
87.5°	25.7	23.7	19.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)