

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: P296278

Luminaire Tested: **24RLN-LD5-80-RDP-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296278
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-L93050-W2A1-U-3000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH RDP LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5202.0 lumens
Efficiency: N/A
Efficacy: 83.7 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

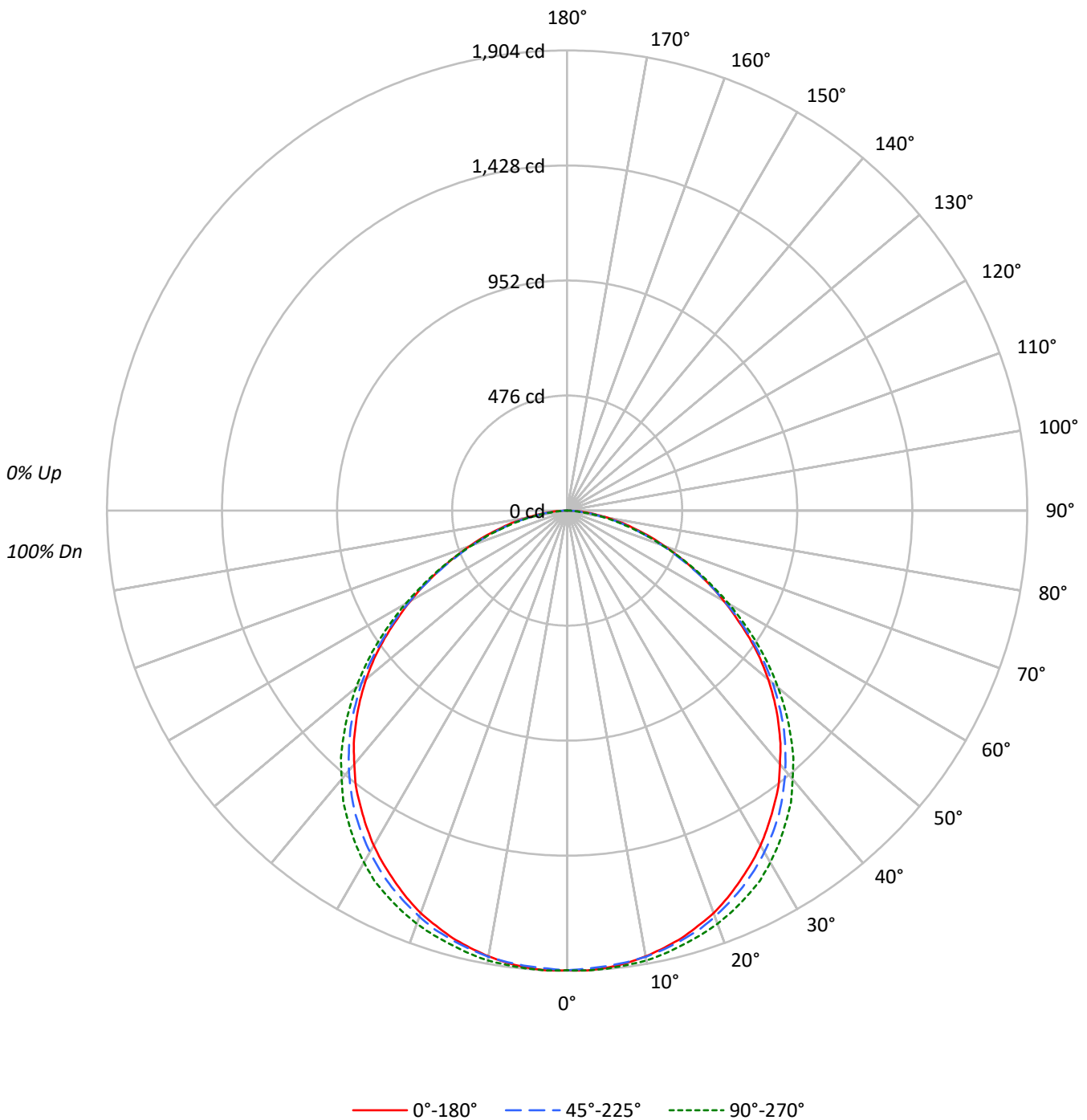
Input Watts (W): 62.124
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2560	2560	2560
5°	2564	2556	2569
10°	2559	2561	2583
15°	2551	2562	2589
20°	2537	2560	2605
25°	2511	2552	2613
30°	2487	2536	2612
35°	2451	2512	2590
40°	2406	2468	2548
45°	2351	2411	2486
50°	2272	2326	2388
55°	2162	2190	2255
60°	2018	2029	2082
65°	1854	1841	1885
70°	1685	1638	1646
75°	1498	1416	1406
80°	1299	1162	1131
85°	1067	823	639



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.5
10°-20°	520.1	10.0
20°-30°	793.9	15.3
30°-40°	957.1	18.4
40°-50°	976.0	18.8
50°-60°	835.3	16.1
60°-70°	575.4	11.1
70°-80°	295.0	5.7
80°-90°	68.7	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°	1494.5	28.7
0°-40°	2451.6	47.1
0°-60°	4263.0	81.9
0°-90°	5202.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5202.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1898	1894	1892	1898	1902	180
15°	1831	1829	1839	1853	1859	516
25°	1691	1697	1719	1748	1760	780
35°	1492	1498	1529	1563	1577	933
45°	1235	1237	1267	1298	1306	952
55°	922	916	933	953	961	822
65°	582	568	578	582	592	579
75°	288	276	272	272	270	311
85°	69	61	53	47	41	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1902.4	1902.4	1902.4	1902.4	1902.4
2.5°	1904.4	1900.4	1896.5	1900.4	1904.4
5°	1898.4	1894.5	1892.5	1898.4	1902.4
7.5°	1888.6	1884.6	1884.6	1892.5	1896.5
10°	1872.8	1870.8	1874.8	1882.7	1890.6
12.5°	1853.1	1853.1	1859.0	1868.8	1876.7
15°	1831.3	1829.4	1839.2	1853.1	1859.0
17.5°	1801.7	1803.7	1817.5	1833.3	1841.2
20°	1772.1	1774.1	1787.9	1809.6	1819.5
22.5°	1734.6	1738.6	1754.4	1782.0	1791.9
25°	1691.2	1697.2	1718.9	1748.5	1760.3
27.5°	1647.8	1653.7	1677.4	1711.0	1726.8
30°	1600.5	1608.3	1632.0	1667.6	1681.4
32.5°	1547.2	1553.1	1582.7	1618.2	1632.0
35°	1491.9	1497.8	1529.4	1563.0	1576.8
37.5°	1436.7	1436.7	1468.2	1507.7	1521.5
40°	1369.6	1371.5	1405.1	1442.6	1450.5
42.5°	1306.4	1306.4	1336.0	1371.5	1385.4
45°	1235.4	1237.3	1266.9	1298.5	1306.4
47.5°	1162.4	1162.4	1188.0	1217.6	1225.5
50°	1085.4	1081.4	1111.0	1134.7	1140.6
52.5°	1006.5	1000.5	1024.2	1043.9	1051.8
55°	921.6	915.7	933.4	953.2	961.1
57.5°	832.8	824.9	844.6	862.4	866.3
60°	749.9	738.1	753.9	763.7	773.6
62.5°	667.0	653.2	665.0	671.0	678.9
65°	582.2	568.3	578.2	582.2	592.0
67.5°	501.3	491.4	493.4	499.3	503.2
70°	428.2	416.4	416.4	416.4	418.4
72.5°	361.1	343.4	341.4	343.4	343.4
75°	288.1	276.3	272.3	272.3	270.4
77.5°	230.9	215.1	213.1	209.2	205.2
80°	167.7	153.9	150.0	148.0	146.0
82.5°	116.4	104.6	100.6	96.7	90.8
85°	69.1	61.2	53.3	47.4	41.4
87.5°	25.7	23.7	19.7	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)