

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: P295896

Luminaire Tested: **24RLN-LD5-45-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295896
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-LD5-45-UNV-L82765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4728.0 lumens
Efficiency: N/A
Efficacy: 145.7 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

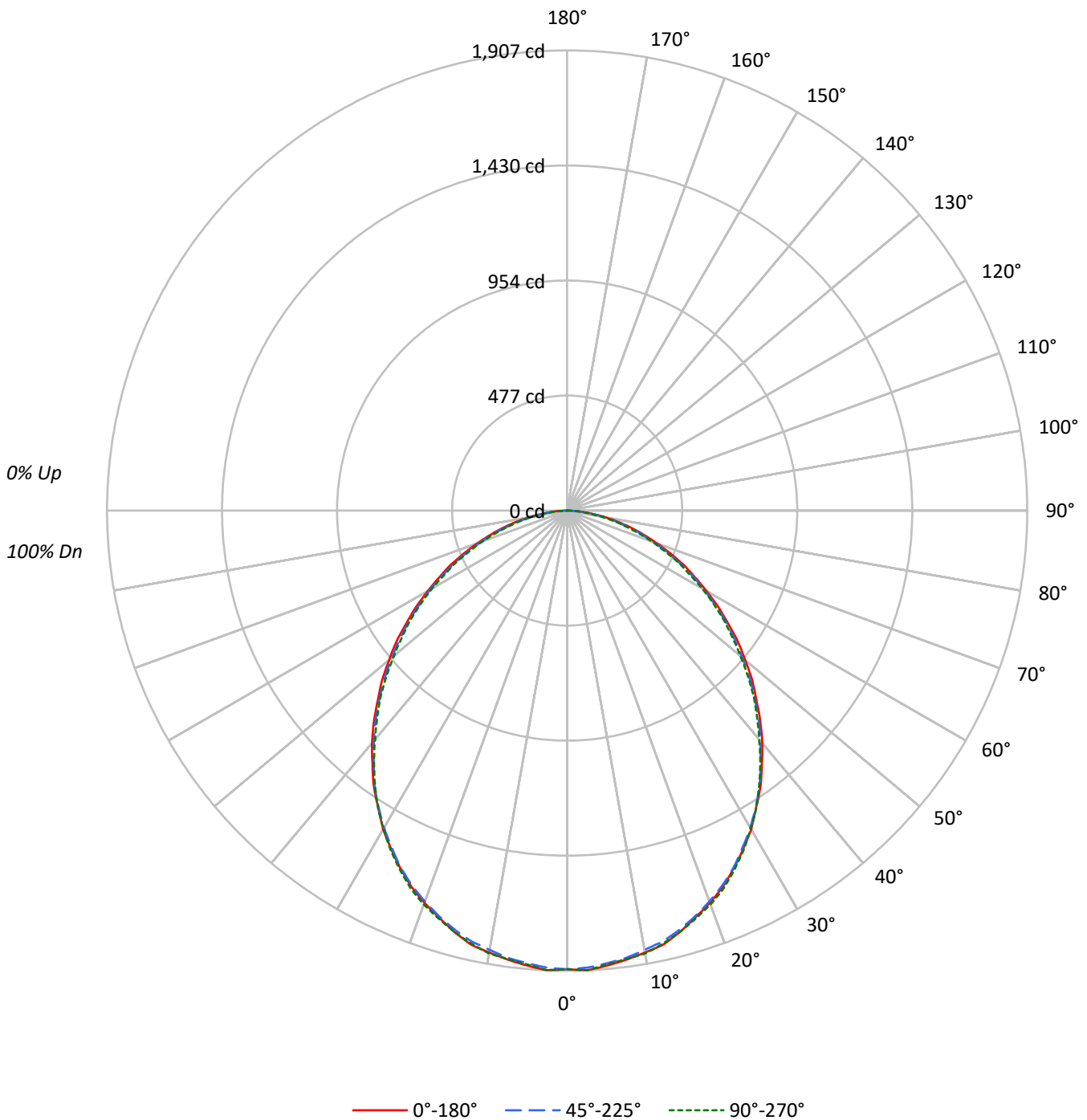
Input Watts (W): 32.457
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2557	2557	2557
5°	2557	2544	2550
10°	2540	2526	2547
15°	2518	2505	2518
20°	2477	2468	2488
25°	2427	2423	2436
30°	2370	2358	2365
35°	2295	2285	2280
40°	2210	2189	2175
45°	2110	2090	2081
50°	2015	1983	1960
55°	1907	1879	1861
60°	1794	1761	1740
65°	1695	1632	1617
70°	1554	1494	1464
75°	1428	1340	1285
80°	1253	1170	1099
85°	1013	942	801



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	3.8
10°-20°	508.4	10.8
20°-30°	752.0	15.9
30°-40°	867.9	18.4
40°-50°	847.6	17.9
50°-60°	715.8	15.1
60°-70°	509.8	10.8
70°-80°	276.1	5.8
80°-90°	71.2	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°	1439.7	30.4
0°-40°	2307.5	48.8
0°-60°	3870.9	81.9
0°-90°	4728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4728.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1900	1900	1900	1900	1900	
5°	1893	1893	1884	1888	1888	180
15°	1808	1800	1798	1806	1808	509
25°	1635	1626	1632	1638	1641	753
35°	1397	1386	1391	1386	1388	872
45°	1109	1100	1098	1094	1094	857
55°	813	802	801	793	793	729
65°	532	522	512	506	508	525
75°	275	265	258	252	247	291
85°	66	64	61	53	52	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1900.5	1900.5	1900.5	1900.5	1900.5
2.5°	1906.6	1899.0	1895.9	1897.5	1906.6
5°	1892.9	1892.9	1883.7	1888.3	1888.3
7.5°	1877.6	1879.2	1870.0	1877.6	1874.6
10°	1859.3	1854.8	1848.7	1860.9	1863.9
12.5°	1842.6	1831.9	1828.8	1836.5	1838.0
15°	1807.5	1799.9	1798.3	1806.0	1807.5
17.5°	1767.8	1769.3	1763.2	1773.9	1772.4
20°	1729.7	1726.6	1723.6	1735.8	1737.3
22.5°	1687.0	1677.8	1680.9	1691.6	1694.6
25°	1635.1	1626.0	1632.1	1638.2	1641.2
27.5°	1580.2	1575.6	1574.1	1581.7	1584.8
30°	1525.3	1517.7	1517.7	1526.8	1522.2
32.5°	1458.2	1452.1	1455.1	1458.2	1459.7
35°	1397.2	1386.5	1391.1	1386.5	1388.0
37.5°	1325.5	1317.9	1316.3	1314.8	1314.8
40°	1258.4	1252.3	1246.2	1246.2	1238.5
42.5°	1185.2	1177.5	1174.5	1169.9	1165.3
45°	1108.9	1099.7	1098.2	1093.6	1093.6
47.5°	1040.3	1026.5	1025.0	1015.8	1015.8
50°	962.5	953.3	947.2	941.1	936.5
52.5°	892.3	883.1	874.0	867.9	863.3
55°	813.0	802.3	800.8	793.2	793.2
57.5°	741.3	732.1	726.0	716.9	718.4
60°	666.6	657.4	654.4	646.7	646.7
62.5°	596.4	588.8	584.2	576.6	570.5
65°	532.3	521.7	512.5	506.4	507.9
67.5°	462.2	450.0	445.4	439.3	434.7
70°	395.1	387.4	379.8	372.2	372.2
72.5°	332.5	324.9	320.3	311.2	308.1
75°	274.6	265.4	257.8	251.7	247.1
77.5°	216.6	207.4	202.9	195.2	195.2
80°	161.7	155.6	151.0	148.0	141.9
82.5°	111.3	108.3	103.7	99.1	94.6
85°	65.6	64.1	61.0	53.4	51.9
87.5°	25.9	25.9	22.9	21.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)