

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: P296063

Luminaire Tested: **24RLN-LD5-60-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296063
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-LD5-60-UNV-L92765-W2A1-U-5500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5654.0 lumens
Efficiency: N/A
Efficacy: 127.2 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

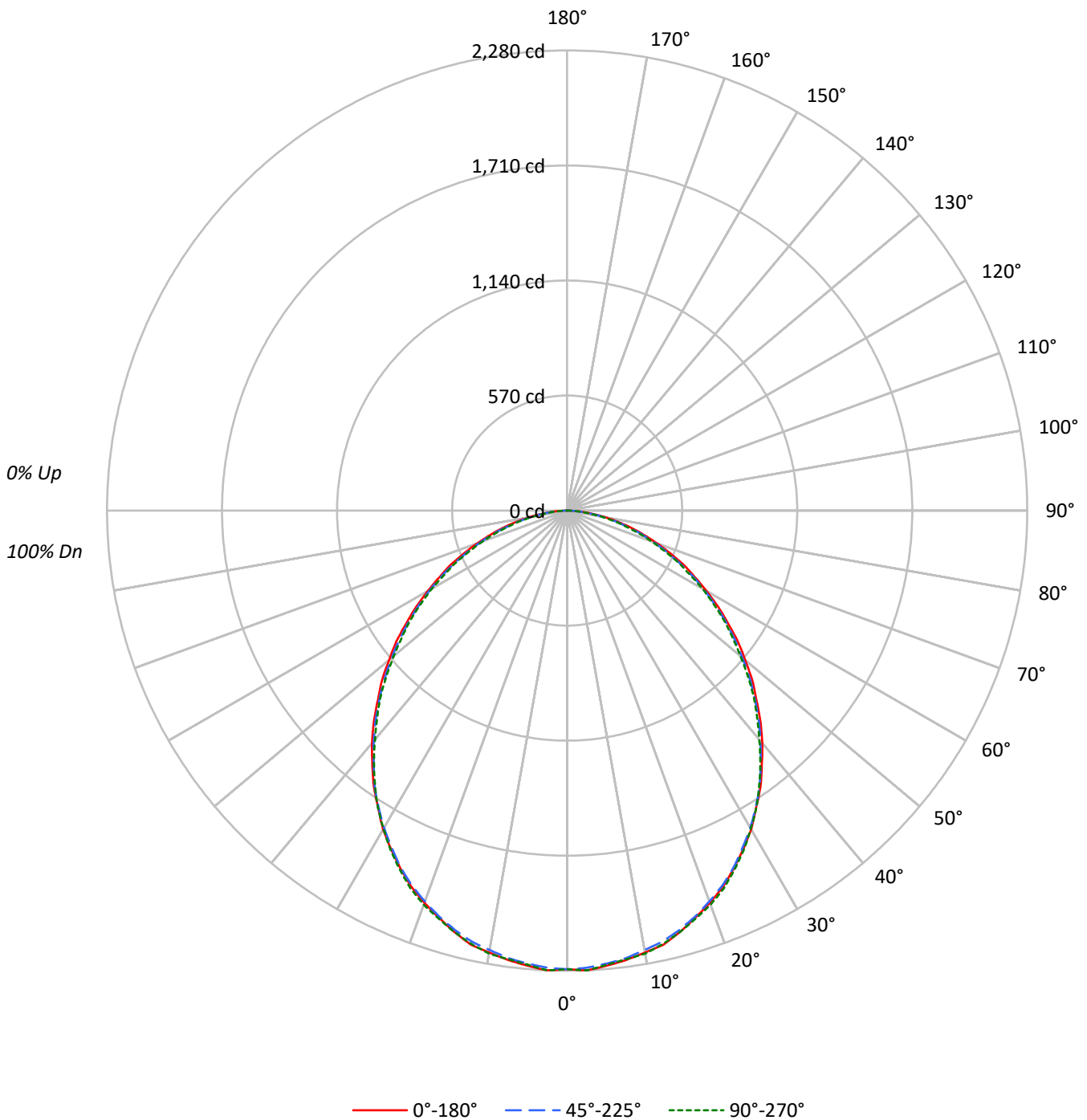
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20							20							20														
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	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°	3058	3058	3058
5°	3057	3043	3050
10°	3038	3020	3045
15°	3011	2996	3011
20°	2962	2951	2975
25°	2903	2897	2914
30°	2834	2820	2828
35°	2744	2732	2726
40°	2643	2617	2601
45°	2523	2499	2488
50°	2409	2371	2344
55°	2281	2246	2225
60°	2145	2106	2081
65°	2027	1951	1934
70°	1858	1787	1751
75°	1707	1603	1536
80°	1498	1399	1314
85°	1210	1127	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.4	3.8
10°-20°	607.9	10.8
20°-30°	899.2	15.9
30°-40°	1037.8	18.4
40°-50°	1013.6	17.9
50°-60°	855.9	15.1
60°-70°	609.7	10.8
70°-80°	330.1	5.8
80°-90°	85.2	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°	1721.6	30.4
0°-40°	2759.4	48.8
0°-60°	4629.0	81.9
0°-90°	5654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2273	2273	2273	2273	2273	
5°	2264	2264	2253	2258	2258	215
15°	2162	2152	2150	2160	2162	609
25°	1955	1944	1952	1959	1963	900
35°	1671	1658	1664	1658	1660	1043
45°	1326	1315	1313	1308	1308	1025
55°	972	959	958	948	948	872
65°	637	624	613	606	607	628
75°	328	317	308	301	296	347
85°	78	77	73	64	62	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2272.7	2272.7	2272.7	2272.7	2272.7
2.5°	2280.0	2270.9	2267.3	2269.1	2280.0
5°	2263.6	2263.6	2252.7	2258.2	2258.2
7.5°	2245.4	2247.2	2236.3	2245.4	2241.7
10°	2223.5	2218.0	2210.7	2225.3	2229.0
12.5°	2203.4	2190.7	2187.0	2196.1	2198.0
15°	2161.5	2152.4	2150.5	2159.7	2161.5
17.5°	2114.1	2115.9	2108.6	2121.4	2119.5
20°	2068.5	2064.8	2061.2	2075.8	2077.6
22.5°	2017.4	2006.4	2010.1	2022.9	2026.5
25°	1955.4	1944.4	1951.7	1959.0	1962.7
27.5°	1889.7	1884.2	1882.4	1891.5	1895.2
30°	1824.0	1814.9	1814.9	1825.9	1820.4
32.5°	1743.8	1736.5	1740.1	1743.8	1745.6
35°	1670.8	1658.0	1663.5	1658.0	1659.9
37.5°	1585.1	1576.0	1574.1	1572.3	1572.3
40°	1504.8	1497.5	1490.2	1490.2	1481.1
42.5°	1417.3	1408.2	1404.5	1399.0	1393.6
45°	1326.1	1315.1	1313.3	1307.8	1307.8
47.5°	1244.0	1227.6	1225.8	1214.8	1214.8
50°	1151.0	1140.0	1132.7	1125.4	1120.0
52.5°	1067.1	1056.1	1045.2	1037.9	1032.4
55°	972.2	959.4	957.6	948.5	948.5
57.5°	886.5	875.5	868.2	857.3	859.1
60°	797.1	786.2	782.5	773.4	773.4
62.5°	713.2	704.1	698.6	689.5	682.2
65°	636.6	623.8	612.9	605.6	607.4
67.5°	552.7	538.1	532.6	525.3	519.8
70°	472.4	463.3	454.2	445.1	445.1
72.5°	397.6	388.5	383.0	372.1	368.5
75°	328.3	317.4	308.3	301.0	295.5
77.5°	259.0	248.1	242.6	233.5	233.5
80°	193.3	186.1	180.6	176.9	169.6
82.5°	133.2	129.5	124.0	118.6	113.1
85°	78.4	76.6	73.0	63.8	62.0
87.5°	31.0	31.0	27.4	25.5	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)