

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: P295921

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295921
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-L82765-W2A1-U-4500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6119.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

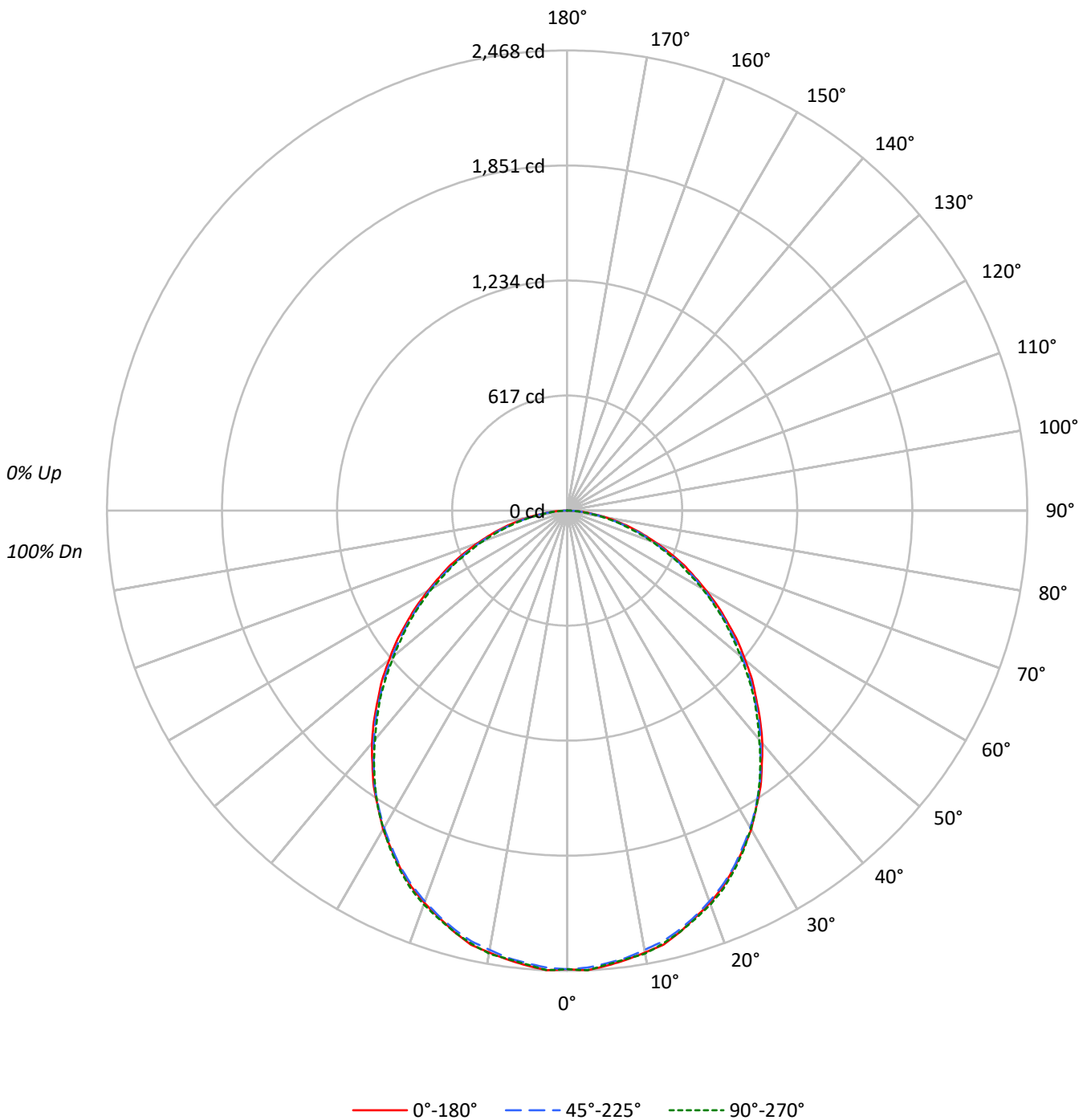
Input Watts (W): 44.082
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295921

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P295921

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-4500K

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°	3310	3310	3310
5°	3309	3293	3301
10°	3288	3269	3296
15°	3258	3242	3258
20°	3205	3194	3219
25°	3142	3136	3153
30°	3067	3052	3061
35°	2970	2957	2951
40°	2860	2833	2815
45°	2731	2704	2693
50°	2607	2566	2537
55°	2468	2431	2408
60°	2322	2279	2252
65°	2193	2112	2093
70°	2011	1934	1895
75°	1847	1734	1663
80°	1621	1514	1423
85°	1311	1220	1036



TEST NUMBER: P295921

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	3.8
10°-20°	657.9	10.8
20°-30°	973.2	15.9
30°-40°	1123.2	18.4
40°-50°	1097.0	17.9
50°-60°	926.3	15.1
60°-70°	659.8	10.8
70°-80°	357.3	5.8
80°-90°	92.2	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°	1863.2	30.4
0°-40°	2986.4	48.8
0°-60°	5009.7	81.9
0°-90°	6119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2460	2460	2460	2460	2460	
5°	2450	2450	2438	2444	2444	232
15°	2339	2329	2327	2337	2339	659
25°	2116	2104	2112	2120	2124	974
35°	1808	1794	1800	1794	1796	1128
45°	1435	1423	1421	1415	1415	1110
55°	1052	1038	1036	1026	1026	943
65°	689	675	663	655	657	679
75°	355	344	334	326	320	376
85°	85	83	79	69	67	100
90°	0	0	0	0	0	



TEST NUMBER: P295921

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2459.7	2459.7	2459.7	2459.7	2459.7
2.5°	2467.6	2457.7	2453.7	2455.7	2467.6
5°	2449.8	2449.8	2437.9	2443.9	2443.9
7.5°	2430.1	2432.0	2420.2	2430.1	2426.1
10°	2406.4	2400.4	2392.5	2408.3	2412.3
12.5°	2384.7	2370.8	2366.9	2376.8	2378.7
15°	2339.2	2329.4	2327.4	2337.3	2339.2
17.5°	2287.9	2289.9	2282.0	2295.8	2293.8
20°	2238.6	2234.6	2230.7	2246.5	2248.4
22.5°	2183.3	2171.5	2175.4	2189.2	2193.2
25°	2116.2	2104.3	2112.2	2120.1	2124.1
27.5°	2045.1	2039.2	2037.2	2047.1	2051.0
30°	1974.0	1964.2	1964.2	1976.0	1970.1
32.5°	1887.2	1879.3	1883.2	1887.2	1889.2
35°	1808.2	1794.4	1800.3	1794.4	1796.4
37.5°	1715.4	1705.6	1703.6	1701.6	1701.6
40°	1628.6	1620.7	1612.8	1612.8	1602.9
42.5°	1533.8	1524.0	1520.0	1514.1	1508.2
45°	1435.1	1423.3	1421.3	1415.4	1415.4
47.5°	1346.3	1328.5	1326.6	1314.7	1314.7
50°	1245.6	1233.8	1225.9	1218.0	1212.1
52.5°	1154.8	1143.0	1131.1	1123.2	1117.3
55°	1052.2	1038.3	1036.4	1026.5	1026.5
57.5°	959.4	947.5	939.6	927.8	929.8
60°	862.7	850.8	846.9	837.0	837.0
62.5°	771.9	762.0	756.1	746.2	738.3
65°	688.9	675.1	663.3	655.4	657.4
67.5°	598.1	582.3	576.4	568.5	562.6
70°	511.3	501.4	491.5	481.7	481.7
72.5°	430.3	420.5	414.6	402.7	398.8
75°	355.3	343.5	333.6	325.7	319.8
77.5°	280.3	268.5	262.5	252.7	252.7
80°	209.2	201.4	195.4	191.5	183.6
82.5°	144.1	140.2	134.2	128.3	122.4
85°	84.9	82.9	79.0	69.1	67.1
87.5°	33.6	33.6	29.6	27.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)