

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: P295924

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295924
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-5700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6280.0 lumens
Efficiency: N/A
Efficacy: 141.3 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

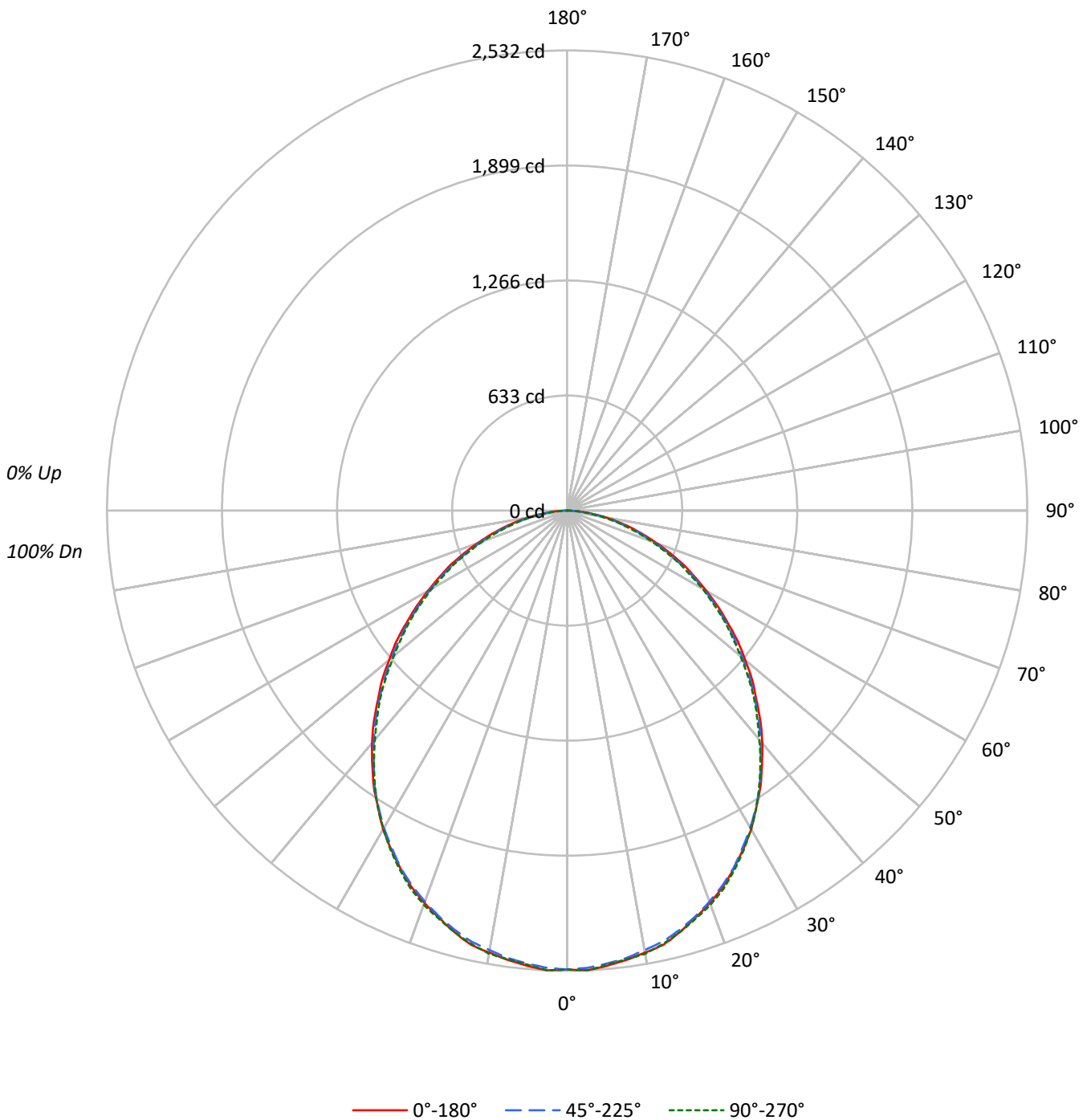
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295924

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P295924

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-5700K

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°	3397	3397	3397
5°	3396	3379	3388
10°	3374	3355	3383
15°	3344	3327	3344
20°	3290	3278	3304
25°	3224	3218	3236
30°	3148	3132	3141
35°	3048	3035	3028
40°	2936	2907	2889
45°	2803	2776	2764
50°	2676	2633	2604
55°	2533	2495	2471
60°	2383	2339	2312
65°	2251	2167	2148
70°	2064	1985	1945
75°	1896	1780	1706
80°	1664	1554	1460
85°	1345	1250	1064



TEST NUMBER: P295924

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.2	3.8
10°-20°	675.2	10.8
20°-30°	998.8	15.9
30°-40°	1152.7	18.4
40°-50°	1125.9	17.9
50°-60°	950.7	15.1
60°-70°	677.2	10.8
70°-80°	366.7	5.8
80°-90°	94.6	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°	1912.2	30.4
0°-40°	3065.0	48.8
0°-60°	5141.5	81.9
0°-90°	6280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6280.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2524	2524	2524	2524	2524	
5°	2514	2514	2502	2508	2508	239
15°	2401	2391	2389	2399	2401	676
25°	2172	2160	2168	2176	2180	1000
35°	1856	1842	1848	1842	1844	1158
45°	1473	1461	1459	1453	1453	1139
55°	1080	1066	1064	1054	1054	968
65°	707	693	681	673	675	697
75°	365	352	342	334	328	386
85°	87	85	81	71	69	102
90°	0	0	0	0	0	



TEST NUMBER: P295924

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2524.4	2524.4	2524.4	2524.4	2524.4
2.5°	2532.5	2522.4	2518.3	2520.3	2532.5
5°	2514.3	2514.3	2502.1	2508.2	2508.2
7.5°	2494.0	2496.0	2483.9	2494.0	2489.9
10°	2469.7	2463.6	2455.5	2471.7	2475.8
12.5°	2447.4	2433.2	2429.2	2439.3	2441.3
15°	2400.8	2390.7	2388.6	2398.8	2400.8
17.5°	2348.1	2350.1	2342.0	2356.2	2354.2
20°	2297.5	2293.4	2289.4	2305.6	2307.6
22.5°	2240.7	2228.6	2232.6	2246.8	2250.9
25°	2171.9	2159.7	2167.8	2175.9	2180.0
27.5°	2098.9	2092.8	2090.8	2100.9	2105.0
30°	2026.0	2015.9	2015.9	2028.0	2021.9
32.5°	1936.8	1928.7	1932.8	1936.8	1938.9
35°	1855.8	1841.6	1847.7	1841.6	1843.6
37.5°	1760.6	1750.5	1748.4	1746.4	1746.4
40°	1671.4	1663.3	1655.2	1655.2	1645.1
42.5°	1574.2	1564.1	1560.0	1553.9	1547.9
45°	1472.9	1460.7	1458.7	1452.6	1452.6
47.5°	1381.7	1363.5	1361.5	1349.3	1349.3
50°	1278.4	1266.2	1258.1	1250.0	1244.0
52.5°	1185.2	1173.0	1160.9	1152.8	1146.7
55°	1079.9	1065.7	1063.6	1053.5	1053.5
57.5°	984.6	972.5	964.4	952.2	954.2
60°	885.4	873.2	869.1	859.0	859.0
62.5°	792.2	782.0	776.0	765.8	757.7
65°	707.1	692.9	680.7	672.6	674.7
67.5°	613.9	597.7	591.6	583.5	577.4
70°	524.7	514.6	504.5	494.3	494.3
72.5°	441.7	431.5	425.5	413.3	409.2
75°	364.7	352.5	342.4	334.3	328.2
77.5°	287.7	275.5	269.5	259.3	259.3
80°	214.8	206.7	200.6	196.5	188.4
82.5°	147.9	143.8	137.8	131.7	125.6
85°	87.1	85.1	81.0	70.9	68.9
87.5°	34.4	34.4	30.4	28.4	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)