

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: P295925

Luminaire Tested: **24RLN-LD5-60-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295925
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6297.0 lumens
Efficiency: N/A
Efficacy: 139.3 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

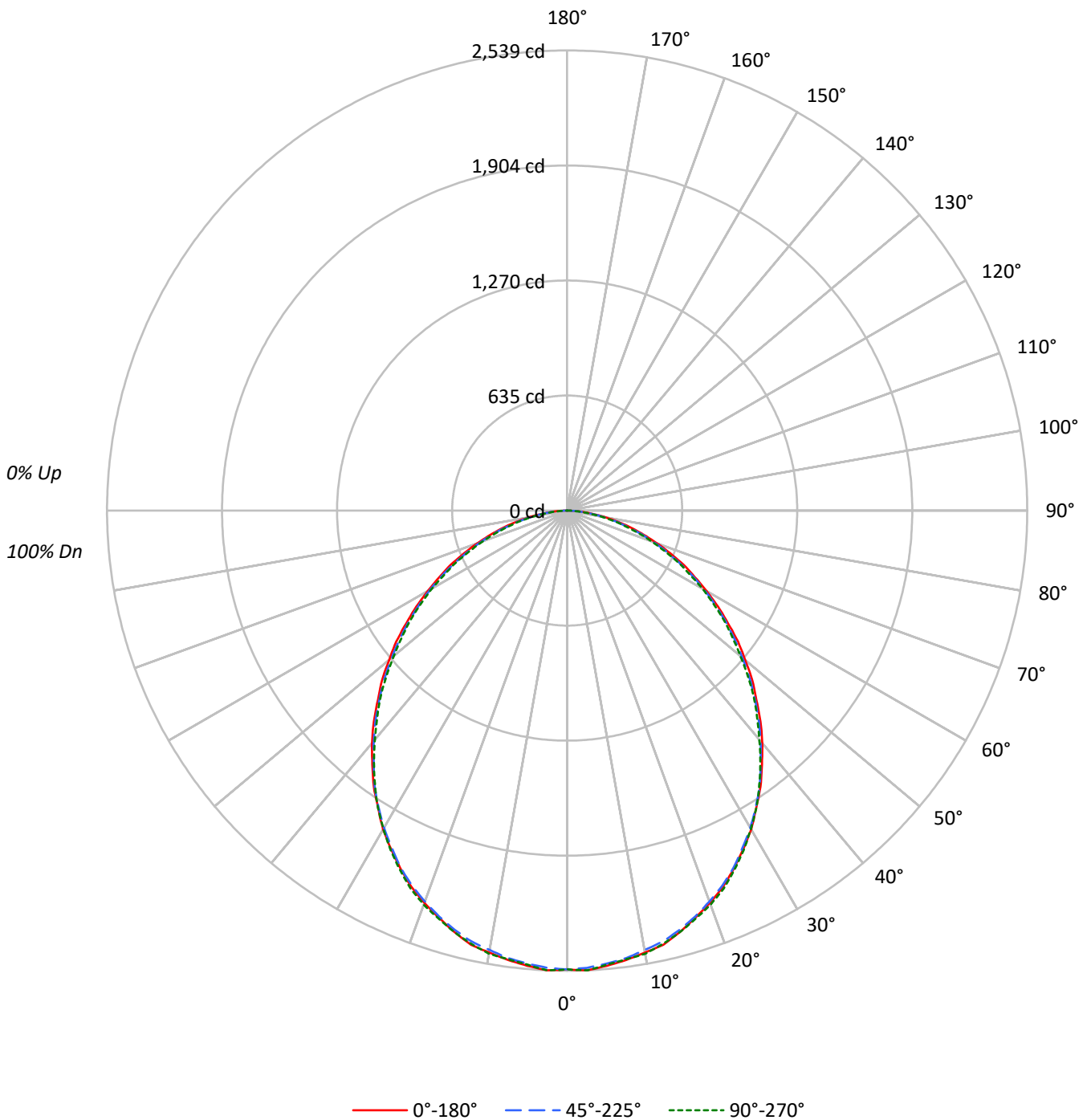
Input Watts (W): 45.198
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295925

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P295925

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-6500K

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°	3406	3406	3406
5°	3405	3389	3397
10°	3383	3364	3392
15°	3353	3336	3353
20°	3299	3287	3313
25°	3233	3227	3245
30°	3156	3140	3150
35°	3056	3043	3036
40°	2944	2915	2897
45°	2810	2783	2772
50°	2683	2641	2611
55°	2540	2502	2478
60°	2389	2345	2318
65°	2257	2173	2154
70°	2070	1990	1950
75°	1901	1785	1711
80°	1668	1558	1464
85°	1349	1255	1067



TEST NUMBER: P295925

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.8	3.8
10°-20°	677.1	10.8
20°-30°	1001.5	15.9
30°-40°	1155.9	18.4
40°-50°	1128.9	17.9
50°-60°	953.3	15.1
60°-70°	679.0	10.8
70°-80°	367.7	5.8
80°-90°	94.9	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°	1917.4	30.4
0°-40°	3073.3	48.8
0°-60°	5155.5	81.9
0°-90°	6297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2531	2531	2531	2531	2531	
5°	2521	2521	2509	2515	2515	239
15°	2407	2397	2395	2405	2407	678
25°	2178	2166	2174	2182	2186	1003
35°	1861	1847	1853	1847	1849	1161
45°	1477	1465	1463	1457	1457	1142
55°	1083	1069	1066	1056	1056	971
65°	709	695	683	674	676	699
75°	366	354	343	335	329	387
85°	87	85	81	71	69	103
90°	0	0	0	0	0	



TEST NUMBER: P295925

CATALOG NUMBER: 24RLN-LD5-60-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2531.2	2531.2	2531.2	2531.2	2531.2
2.5°	2539.3	2529.2	2525.1	2527.2	2539.3
5°	2521.1	2521.1	2508.9	2515.0	2515.0
7.5°	2500.7	2502.8	2490.6	2500.7	2496.7
10°	2476.4	2470.3	2462.1	2478.4	2482.5
12.5°	2454.0	2439.8	2435.7	2445.9	2447.9
15°	2407.3	2397.1	2395.1	2405.3	2407.3
17.5°	2354.5	2356.5	2348.4	2362.6	2360.6
20°	2303.7	2299.6	2295.6	2311.8	2313.8
22.5°	2246.8	2234.6	2238.7	2252.9	2257.0
25°	2177.7	2165.5	2173.7	2181.8	2185.9
27.5°	2104.6	2098.5	2096.5	2106.6	2110.7
30°	2031.5	2021.3	2021.3	2033.5	2027.4
32.5°	1942.1	1934.0	1938.0	1942.1	1944.1
35°	1860.8	1846.6	1852.7	1846.6	1848.6
37.5°	1765.3	1755.2	1753.2	1751.1	1751.1
40°	1676.0	1667.8	1659.7	1659.7	1649.6
42.5°	1578.5	1568.3	1564.2	1558.1	1552.0
45°	1476.9	1464.7	1462.7	1456.6	1456.6
47.5°	1385.5	1367.2	1365.1	1353.0	1353.0
50°	1281.9	1269.7	1261.5	1253.4	1247.3
52.5°	1188.4	1176.2	1164.0	1155.9	1149.8
55°	1082.8	1068.6	1066.5	1056.4	1056.4
57.5°	987.3	975.1	967.0	954.8	956.8
60°	887.8	875.6	871.5	861.3	861.3
62.5°	794.3	784.1	778.1	767.9	759.8
65°	709.0	694.8	682.6	674.4	676.5
67.5°	615.5	599.3	593.2	585.1	579.0
70°	526.2	516.0	505.8	495.7	495.7
72.5°	442.9	432.7	426.6	414.4	410.4
75°	365.7	353.5	343.3	335.2	329.1
77.5°	288.5	276.3	270.2	260.0	260.0
80°	215.3	207.2	201.1	197.1	188.9
82.5°	148.3	144.2	138.1	132.0	126.0
85°	87.4	85.3	81.3	71.1	69.1
87.5°	34.5	34.5	30.5	28.4	26.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)