

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: P295845

Luminaire Tested: **24RLN-LD5-60-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295845
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-L83050-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6325.0 lumens
Efficiency: N/A
Efficacy: 142.9 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

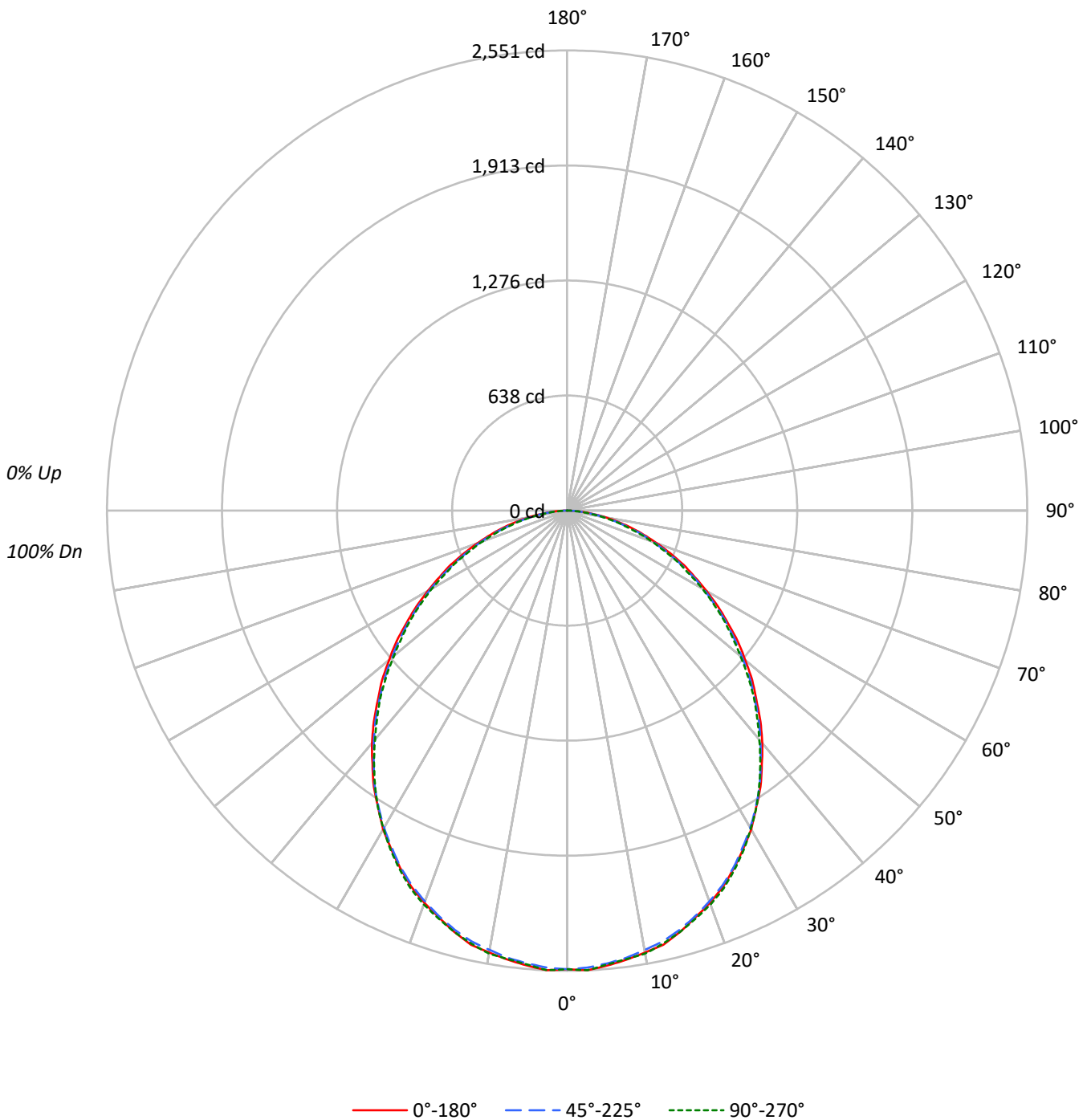
Input Watts (W): 44.268
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P295845

CATALOG NUMBER: 24RLN-LD5-60-UNV-L83050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P295845

CATALOG NUMBER: 24RLN-LD5-60-UNV-L83050-W2A1-U-4000K

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°	3421	3421	3421
5°	3420	3404	3412
10°	3398	3379	3407
15°	3368	3351	3368
20°	3313	3302	3328
25°	3247	3241	3260
30°	3170	3154	3164
35°	3070	3057	3050
40°	2957	2928	2910
45°	2823	2796	2784
50°	2695	2653	2623
55°	2551	2513	2489
60°	2400	2356	2328
65°	2267	2183	2163
70°	2079	1999	1959
75°	1909	1792	1719
80°	1676	1565	1471
85°	1354	1260	1071



TEST NUMBER: P295845

CATALOG NUMBER: 24RLN-LD5-60-UNV-L83050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.9	3.8
10°-20°	680.1	10.8
20°-30°	1006.0	15.9
30°-40°	1161.0	18.4
40°-50°	1133.9	17.9
50°-60°	957.5	15.1
60°-70°	682.0	10.8
70°-80°	369.3	5.8
80°-90°	95.3	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°	1925.9	30.4
0°-40°	3086.9	48.8
0°-60°	5178.4	81.9
0°-90°	6325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2542	2542	2542	2542	2542	
5°	2532	2532	2520	2526	2526	240
15°	2418	2408	2406	2416	2418	681
25°	2187	2175	2183	2192	2196	1007
35°	1869	1855	1861	1855	1857	1166
45°	1483	1471	1469	1463	1463	1147
55°	1088	1073	1071	1061	1061	975
65°	712	698	686	677	680	702
75°	367	355	345	337	331	389
85°	88	86	82	71	69	103
90°	0	0	0	0	0	



TEST NUMBER: P295845

CATALOG NUMBER: 24RLN-LD5-60-UNV-L83050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.5	2542.5	2542.5	2542.5	2542.5
2.5°	2550.6	2540.4	2536.3	2538.4	2550.6
5°	2532.3	2532.3	2520.0	2526.1	2526.1
7.5°	2511.9	2513.9	2501.7	2511.9	2507.8
10°	2487.4	2481.3	2473.1	2489.4	2493.5
12.5°	2464.9	2450.6	2446.6	2456.8	2458.8
15°	2418.0	2407.8	2405.8	2416.0	2418.0
17.5°	2364.9	2367.0	2358.8	2373.1	2371.1
20°	2313.9	2309.9	2305.8	2322.1	2324.1
22.5°	2256.8	2244.6	2248.6	2262.9	2267.0
25°	2187.4	2175.2	2183.3	2191.5	2195.6
27.5°	2114.0	2107.8	2105.8	2116.0	2120.1
30°	2040.5	2030.3	2030.3	2042.5	2036.4
32.5°	1950.7	1942.6	1946.6	1950.7	1952.8
35°	1869.1	1854.8	1860.9	1854.8	1856.9
37.5°	1773.2	1763.0	1761.0	1758.9	1758.9
40°	1683.4	1675.3	1667.1	1667.1	1656.9
42.5°	1585.5	1575.3	1571.2	1565.1	1558.9
45°	1483.4	1471.2	1469.2	1463.0	1463.0
47.5°	1391.6	1373.3	1371.2	1359.0	1359.0
50°	1287.6	1275.3	1267.2	1259.0	1252.9
52.5°	1193.7	1181.5	1169.2	1161.0	1154.9
55°	1087.6	1073.3	1071.3	1061.1	1061.1
57.5°	991.7	979.4	971.3	959.0	961.1
60°	891.7	879.5	875.4	865.2	865.2
62.5°	797.8	787.6	781.5	771.3	763.1
65°	712.1	697.9	685.6	677.4	679.5
67.5°	618.3	601.9	595.8	587.7	581.5
70°	528.5	518.3	508.1	497.9	497.9
72.5°	444.8	434.6	428.5	416.3	412.2
75°	367.3	355.0	344.8	336.7	330.6
77.5°	289.8	277.5	271.4	261.2	261.2
80°	216.3	208.1	202.0	197.9	189.8
82.5°	149.0	144.9	138.8	132.6	126.5
85°	87.7	85.7	81.6	71.4	69.4
87.5°	34.7	34.7	30.6	28.6	26.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)