

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: P296078

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296078
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-LD5-74-UNV-L92765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6566.0 lumens
Efficiency: N/A
Efficacy: 117.9 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

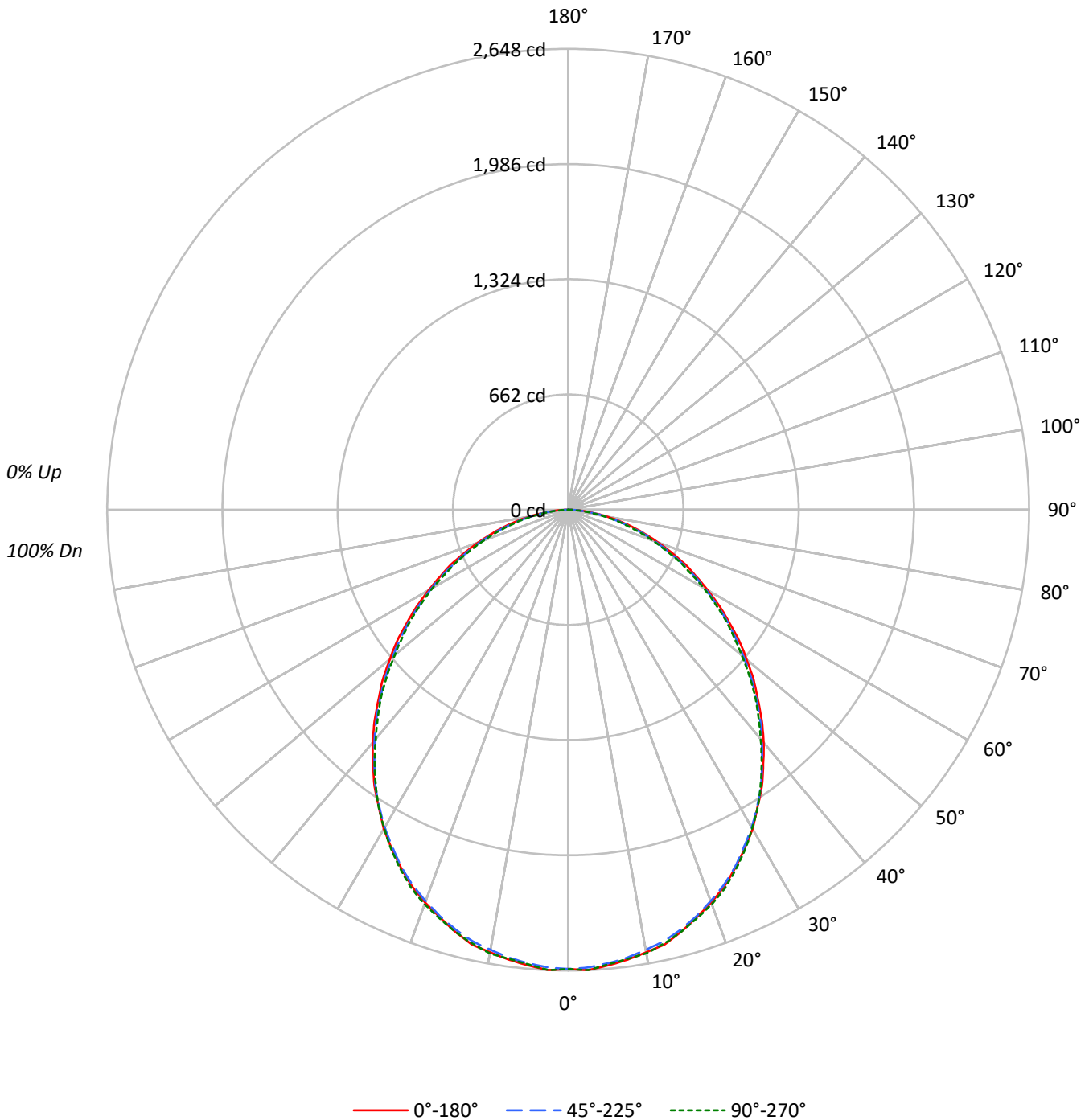
Input Watts (W): 55.707
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296078

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P296078

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-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	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°	3551	3551	3551
5°	3551	3533	3542
10°	3528	3508	3537
15°	3496	3479	3496
20°	3439	3427	3455
25°	3371	3365	3384
30°	3291	3275	3284
35°	3187	3173	3166
40°	3070	3040	3021
45°	2930	2902	2890
50°	2798	2753	2722
55°	2648	2609	2584
60°	2491	2445	2417
65°	2354	2266	2246
70°	2158	2075	2033
75°	1982	1861	1784
80°	1740	1625	1526
85°	1406	1308	1112



TEST NUMBER: P296078

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.0	3.8
10°-20°	706.0	10.8
20°-30°	1044.3	15.9
30°-40°	1205.2	18.4
40°-50°	1177.1	17.9
50°-60°	994.0	15.1
60°-70°	708.0	10.8
70°-80°	383.4	5.8
80°-90°	98.9	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°	1999.3	30.4
0°-40°	3204.6	48.8
0°-60°	5375.7	81.9
0°-90°	6566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2639	2639	2639	2639	2639	
5°	2629	2629	2616	2622	2622	249
15°	2510	2500	2497	2508	2510	707
25°	2271	2258	2266	2275	2279	1045
35°	1940	1926	1932	1926	1928	1211
45°	1540	1527	1525	1519	1519	1191
55°	1129	1114	1112	1102	1102	1012
65°	739	724	712	703	705	729
75°	381	369	358	350	343	404
85°	91	89	85	74	72	107
90°	0	0	0	0	0	



TEST NUMBER: P296078

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2639.3	2639.3	2639.3	2639.3	2639.3
2.5°	2647.8	2637.2	2633.0	2635.1	2647.8
5°	2628.8	2628.8	2616.0	2622.4	2622.4
7.5°	2607.6	2609.7	2597.0	2607.6	2603.3
10°	2582.2	2575.8	2567.3	2584.3	2588.5
12.5°	2558.9	2544.0	2539.8	2550.4	2552.5
15°	2510.1	2499.5	2497.4	2508.0	2510.1
17.5°	2455.1	2457.2	2448.7	2463.5	2461.4
20°	2402.1	2397.9	2393.6	2410.6	2412.7
22.5°	2342.8	2330.1	2334.3	2349.1	2353.4
25°	2270.8	2258.1	2266.5	2275.0	2279.2
27.5°	2194.5	2188.2	2186.0	2196.6	2200.9
30°	2118.3	2107.7	2107.7	2120.4	2114.0
32.5°	2025.1	2016.6	2020.8	2025.1	2027.2
35°	1940.3	1925.5	1931.8	1925.5	1927.6
37.5°	1840.8	1830.2	1828.1	1825.9	1825.9
40°	1747.6	1739.1	1730.6	1730.6	1720.0
42.5°	1645.9	1635.3	1631.1	1624.7	1618.3
45°	1540.0	1527.3	1525.1	1518.8	1518.8
47.5°	1444.6	1425.6	1423.5	1410.8	1410.8
50°	1336.6	1323.9	1315.4	1307.0	1300.6
52.5°	1239.2	1226.5	1213.8	1205.3	1198.9
55°	1129.0	1114.2	1112.1	1101.5	1101.5
57.5°	1029.5	1016.8	1008.3	995.6	997.7
60°	925.7	913.0	908.7	898.1	898.1
62.5°	828.2	817.6	811.3	800.7	792.2
65°	739.3	724.4	711.7	703.3	705.4
67.5°	641.8	624.9	618.5	610.1	603.7
70°	548.6	538.0	527.4	516.9	516.9
72.5°	461.8	451.2	444.8	432.1	427.9
75°	381.3	368.6	358.0	349.5	343.2
77.5°	300.8	288.1	281.7	271.1	271.1
80°	224.5	216.1	209.7	205.5	197.0
82.5°	154.6	150.4	144.0	137.7	131.3
85°	91.1	89.0	84.7	74.1	72.0
87.5°	36.0	36.0	31.8	29.7	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)