

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: P296075

Luminaire Tested: **24RLN-LD5-74-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296075
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5825.0 lumens
Efficiency: N/A
Efficacy: 106.0 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

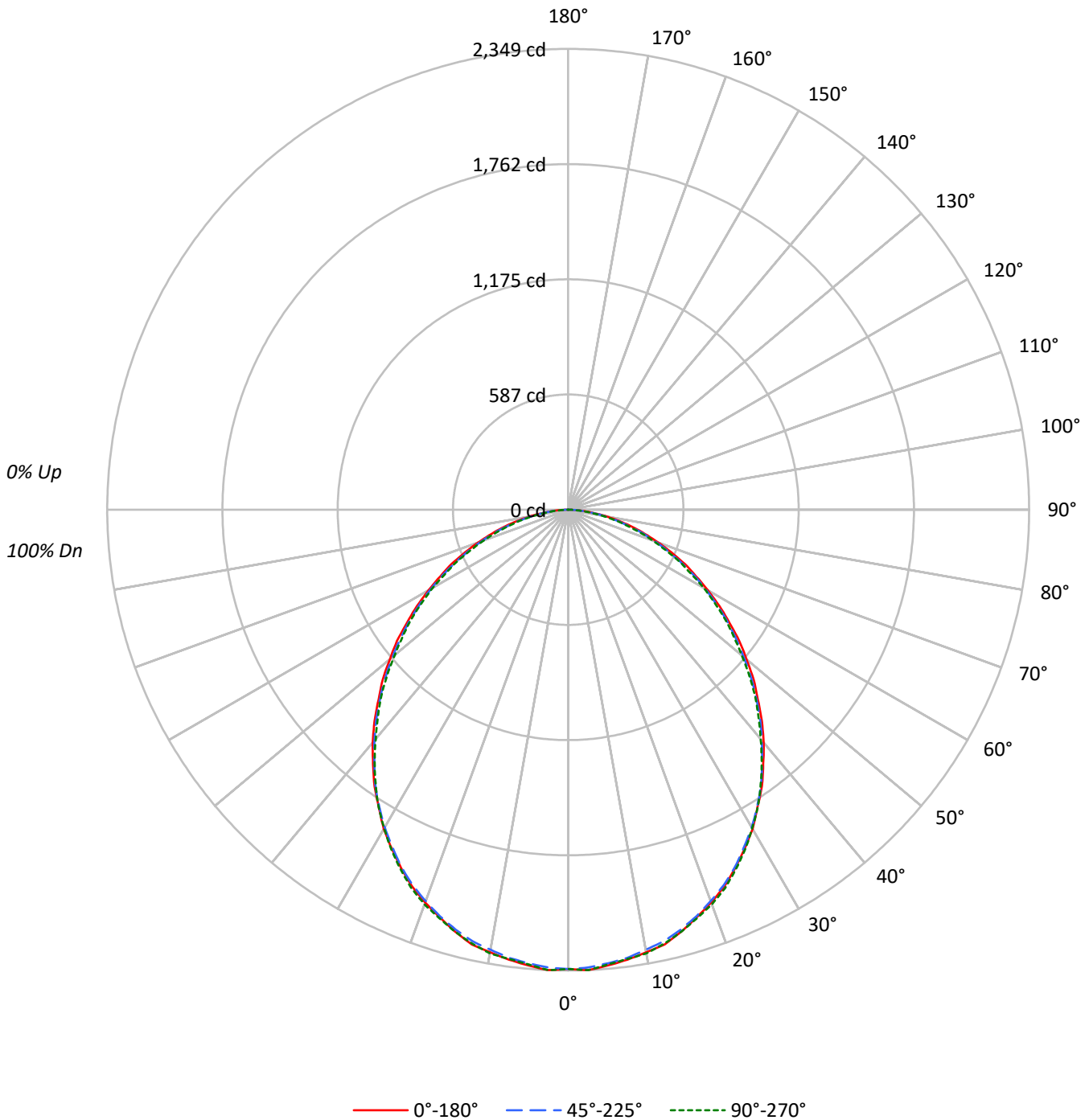
Input Watts (W): 54.963
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296075

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P296075

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-2700K

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°	3150	3150	3150
5°	3150	3135	3142
10°	3130	3112	3137
15°	3102	3086	3102
20°	3051	3041	3065
25°	2991	2985	3002
30°	2920	2905	2914
35°	2827	2815	2809
40°	2723	2697	2680
45°	2600	2575	2564
50°	2482	2443	2415
55°	2350	2314	2292
60°	2210	2169	2144
65°	2088	2010	1992
70°	1915	1841	1804
75°	1759	1651	1582
80°	1543	1441	1354
85°	1247	1161	986



TEST NUMBER: P296075

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	220.9	3.8
10°-20°	626.3	10.8
20°-30°	926.4	15.9
30°-40°	1069.2	18.4
40°-50°	1044.3	17.9
50°-60°	881.8	15.1
60°-70°	628.1	10.8
70°-80°	340.1	5.8
80°-90°	87.7	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°	1773.7	30.4
0°-40°	2842.9	48.8
0°-60°	4769.0	81.9
0°-90°	5825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2342	2342	2342	2342	2342	
5°	2332	2332	2321	2326	2326	221
15°	2227	2218	2216	2225	2227	627
25°	2014	2003	2011	2018	2022	927
35°	1721	1708	1714	1708	1710	1074
45°	1366	1355	1353	1347	1347	1056
55°	1002	988	987	977	977	898
65°	656	643	631	624	626	647
75°	338	327	318	310	304	358
85°	81	79	75	66	64	95
90°	0	0	0	0	0	



TEST NUMBER: P296075

CATALOG NUMBER: 24RLN-LD5-74-UNV-L92765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2341.5	2341.5	2341.5	2341.5	2341.5
2.5°	2349.0	2339.6	2335.8	2337.7	2349.0
5°	2332.1	2332.1	2320.8	2326.5	2326.5
7.5°	2313.3	2315.2	2303.9	2313.3	2309.5
10°	2290.7	2285.1	2277.6	2292.6	2296.4
12.5°	2270.1	2256.9	2253.2	2262.6	2264.4
15°	2226.9	2217.5	2215.6	2225.0	2226.9
17.5°	2178.0	2179.9	2172.4	2185.5	2183.6
20°	2131.0	2127.3	2123.5	2138.5	2140.4
22.5°	2078.4	2067.1	2070.9	2084.0	2087.8
25°	2014.5	2003.2	2010.7	2018.3	2022.0
27.5°	1946.9	1941.2	1939.3	1948.7	1952.5
30°	1879.2	1869.8	1869.8	1881.1	1875.4
32.5°	1796.5	1789.0	1792.8	1796.5	1798.4
35°	1721.3	1708.2	1713.8	1708.2	1710.1
37.5°	1633.0	1623.6	1621.8	1619.9	1619.9
40°	1550.3	1542.8	1535.3	1535.3	1525.9
42.5°	1460.1	1450.7	1447.0	1441.3	1435.7
45°	1366.2	1354.9	1353.0	1347.4	1347.4
47.5°	1281.6	1264.7	1262.8	1251.5	1251.5
50°	1185.8	1174.5	1167.0	1159.5	1153.8
52.5°	1099.3	1088.1	1076.8	1069.3	1063.6
55°	1001.6	988.5	986.6	977.2	977.2
57.5°	913.3	902.0	894.5	883.2	885.1
60°	821.2	809.9	806.2	796.8	796.8
62.5°	734.8	725.4	719.7	710.3	702.8
65°	655.8	642.7	631.4	623.9	625.8
67.5°	569.4	554.4	548.7	541.2	535.6
70°	486.7	477.3	467.9	458.5	458.5
72.5°	409.7	400.3	394.6	383.4	379.6
75°	338.3	327.0	317.6	310.1	304.4
77.5°	266.8	255.6	249.9	240.5	240.5
80°	199.2	191.7	186.0	182.3	174.8
82.5°	137.2	133.4	127.8	122.1	116.5
85°	80.8	78.9	75.2	65.8	63.9
87.5°	31.9	31.9	28.2	26.3	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)