

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: P295940

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295940
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-L82765-W2A1-U-5000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7654.0 lumens
Efficiency: N/A
Efficacy: 135.8 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

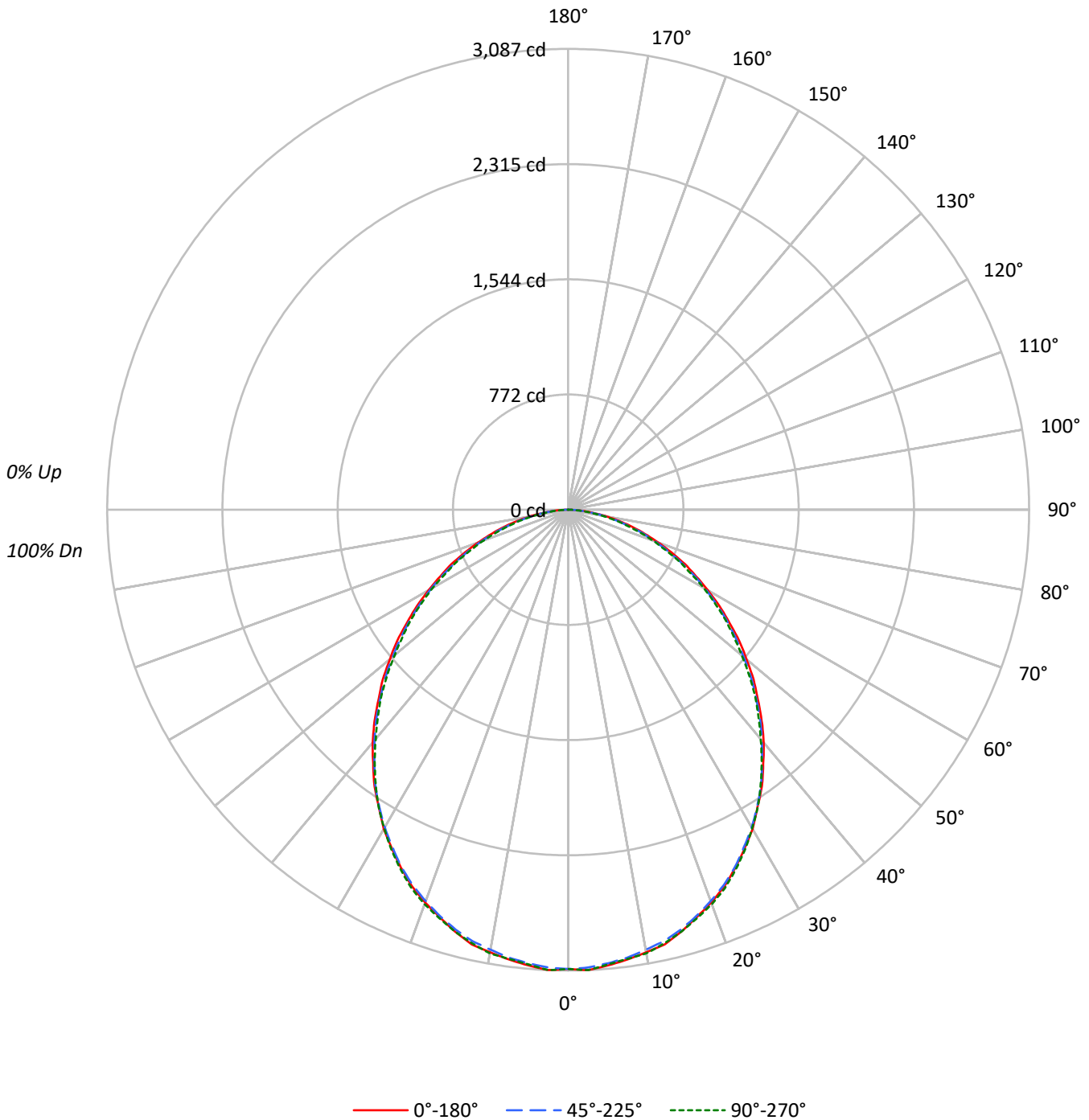
Input Watts (W): 56.358
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	4140	4140	4140
5°	4139	4119	4129
10°	4112	4089	4123
15°	4076	4055	4076
20°	4009	3995	4027
25°	3930	3922	3944
30°	3836	3817	3829
35°	3715	3699	3691
40°	3578	3543	3522
45°	3416	3383	3369
50°	3261	3210	3174
55°	3087	3041	3012
60°	2904	2851	2817
65°	2744	2642	2618
70°	2516	2419	2370
75°	2311	2169	2079
80°	2028	1894	1779
85°	1639	1525	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	3.8
10°-20°	823.0	10.8
20°-30°	1217.3	15.9
30°-40°	1404.9	18.4
40°-50°	1372.2	17.9
50°-60°	1158.7	15.1
60°-70°	825.3	10.8
70°-80°	446.9	5.8
80°-90°	115.3	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°	2330.6	30.4
0°-40°	3735.6	48.8
0°-60°	6266.5	81.9
0°-90°	7654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3077	3077	3077	3077	3077	
5°	3064	3064	3050	3057	3057	291
15°	2926	2914	2911	2924	2926	824
25°	2647	2632	2642	2652	2657	1219
35°	2262	2245	2252	2245	2247	1412
45°	1795	1780	1778	1770	1770	1388
55°	1316	1299	1296	1284	1284	1180
65°	862	844	830	820	822	850
75°	444	430	417	407	400	470
85°	106	104	99	86	84	125
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3076.7	3076.7	3076.7	3076.7	3076.7
2.5°	3086.6	3074.2	3069.3	3071.8	3086.6
5°	3064.3	3064.3	3049.5	3056.9	3056.9
7.5°	3039.7	3042.1	3027.3	3039.7	3034.7
10°	3010.0	3002.6	2992.7	3012.5	3017.4
12.5°	2982.9	2965.6	2960.6	2973.0	2975.5
15°	2926.1	2913.7	2911.3	2923.6	2926.1
17.5°	2861.9	2864.3	2854.5	2871.7	2869.3
20°	2800.1	2795.2	2790.3	2810.0	2812.5
22.5°	2731.0	2716.2	2721.1	2738.4	2743.3
25°	2647.0	2632.2	2642.1	2652.0	2656.9
27.5°	2558.1	2550.7	2548.3	2560.6	2565.6
30°	2469.3	2456.9	2456.9	2471.7	2464.3
32.5°	2360.6	2350.7	2355.7	2360.6	2363.1
35°	2261.8	2244.6	2252.0	2244.6	2247.0
37.5°	2145.8	2133.4	2131.0	2128.5	2128.5
40°	2037.1	2027.3	2017.4	2017.4	2005.0
42.5°	1918.6	1906.3	1901.3	1893.9	1886.5
45°	1795.1	1780.3	1777.9	1770.5	1770.5
47.5°	1684.0	1661.8	1659.3	1644.5	1644.5
50°	1558.1	1543.3	1533.4	1523.5	1516.1
52.5°	1444.5	1429.7	1414.9	1405.0	1397.6
55°	1316.1	1298.8	1296.4	1284.0	1284.0
57.5°	1200.1	1185.2	1175.4	1160.5	1163.0
60°	1079.1	1064.2	1059.3	1047.0	1047.0
62.5°	965.5	953.1	945.7	933.4	923.5
65°	861.8	844.5	829.7	819.8	822.3
67.5°	748.2	728.4	721.0	711.1	703.7
70°	639.5	627.2	614.8	602.5	602.5
72.5°	538.3	526.0	518.5	503.7	498.8
75°	444.5	429.7	417.3	407.4	400.0
77.5°	350.6	335.8	328.4	316.1	316.1
80°	261.7	251.9	244.5	239.5	229.6
82.5°	180.3	175.3	167.9	160.5	153.1
85°	106.2	103.7	98.8	86.4	84.0
87.5°	42.0	42.0	37.0	34.6	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)