

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: P295935

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295935
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-2700K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6822.0 lumens
Efficiency: N/A
Efficacy: 123.9 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

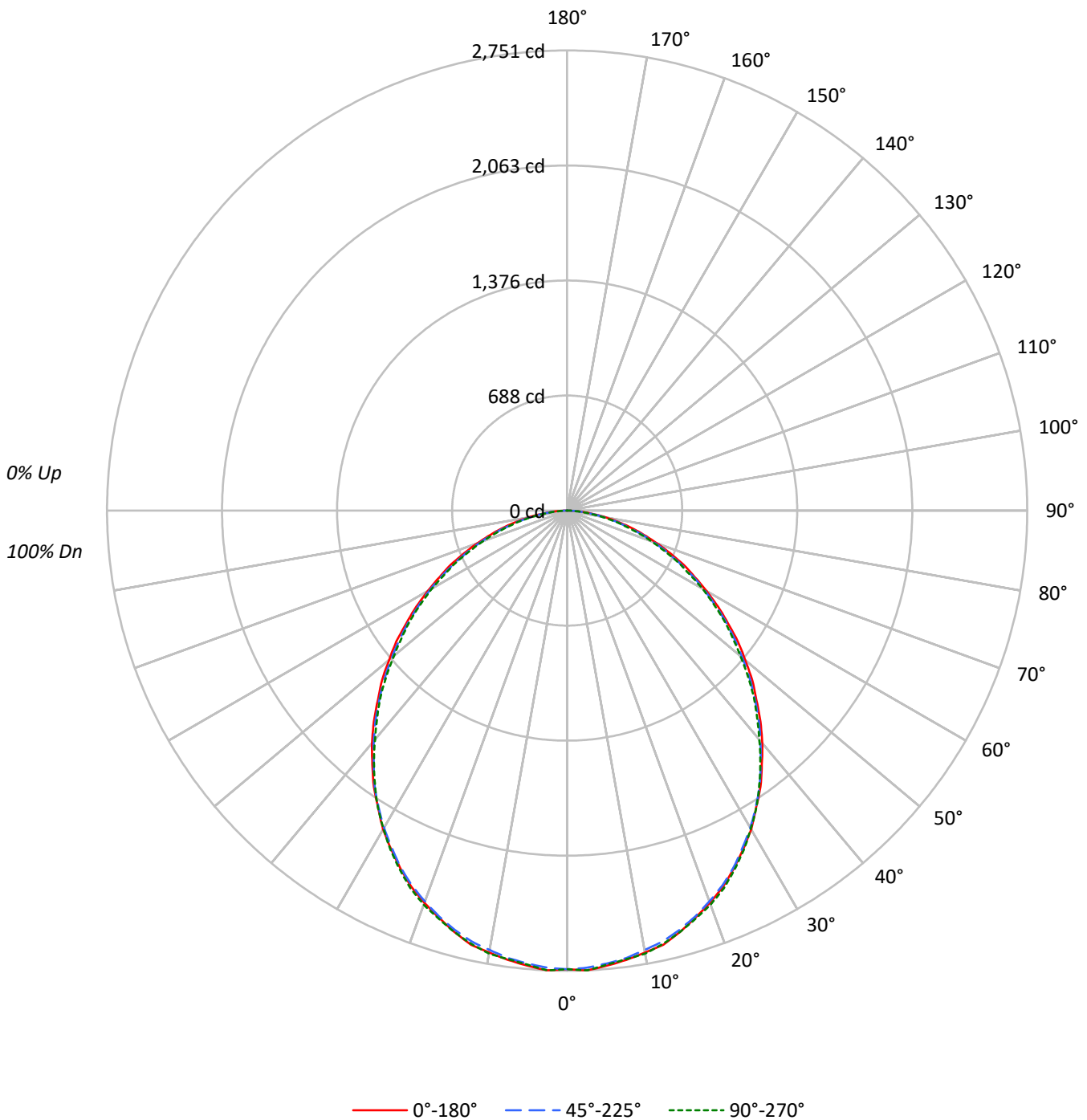
Input Watts (W): 55.056
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	62	56	66	60	55	64	59	55	52					52			
5	77	65	56	50	75	64	55	49	62	54	49	60	53	48	58	52	48	46					46			
6	72	59	50	44	70	58	49	43	56	48	43	54	48	43	53	47	42	40					40			
7	66	53	45	39	65	52	44	39	51	44	38	49	43	38	48	42	38	36					36			
8	62	49	40	35	60	48	40	35	47	39	34	45	39	34	44	38	34	32					32			
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29					29			
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26					26			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3690	3690	3690
5°	3689	3671	3680
10°	3665	3644	3674
15°	3633	3614	3633
20°	3574	3561	3589
25°	3503	3496	3516
30°	3419	3402	3412
35°	3311	3297	3290
40°	3189	3158	3139
45°	3044	3015	3003
50°	2907	2861	2829
55°	2752	2710	2685
60°	2588	2541	2511
65°	2445	2354	2333
70°	2242	2156	2113
75°	2060	1933	1853
80°	1808	1688	1586
85°	1460	1359	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.7	3.8
10°-20°	733.5	10.8
20°-30°	1085.0	15.9
30°-40°	1252.2	18.4
40°-50°	1223.0	17.9
50°-60°	1032.8	15.1
60°-70°	735.6	10.8
70°-80°	398.3	5.8
80°-90°	102.8	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°	2077.3	30.4
0°-40°	3329.5	48.8
0°-60°	5585.3	81.9
0°-90°	6822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2742	2742	2742	2742	2742	
5°	2731	2731	2718	2725	2725	259
15°	2608	2597	2595	2606	2608	735
25°	2359	2346	2355	2364	2368	1086
35°	2016	2001	2007	2001	2003	1258
45°	1600	1587	1585	1578	1578	1237
55°	1173	1158	1155	1144	1144	1052
65°	768	753	740	731	733	757
75°	396	383	372	363	356	419
85°	95	92	88	77	75	111
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2742.2	2742.2	2742.2	2742.2	2742.2
2.5°	2751.1	2740.0	2735.6	2737.8	2751.1
5°	2731.2	2731.2	2718.0	2724.6	2724.6
7.5°	2709.2	2711.4	2698.2	2709.2	2704.8
10°	2682.8	2676.2	2667.4	2685.0	2689.4
12.5°	2658.6	2643.2	2638.8	2649.8	2652.0
15°	2608.0	2597.0	2594.8	2605.8	2608.0
17.5°	2550.8	2553.0	2544.2	2559.6	2557.4
20°	2495.8	2491.4	2487.0	2504.6	2506.8
22.5°	2434.1	2420.9	2425.3	2440.7	2445.1
25°	2359.3	2346.1	2354.9	2363.7	2368.1
27.5°	2280.1	2273.5	2271.3	2282.3	2286.7
30°	2200.8	2189.8	2189.8	2203.0	2196.4
32.5°	2104.0	2095.2	2099.6	2104.0	2106.2
35°	2016.0	2000.6	2007.2	2000.6	2002.8
37.5°	1912.5	1901.5	1899.3	1897.1	1897.1
40°	1815.7	1806.9	1798.1	1798.1	1787.1
42.5°	1710.1	1699.1	1694.6	1688.0	1681.4
45°	1600.0	1586.8	1584.6	1578.0	1578.0
47.5°	1501.0	1481.2	1479.0	1465.8	1465.8
50°	1388.7	1375.5	1366.7	1357.9	1351.3
52.5°	1287.5	1274.3	1261.1	1252.3	1245.7
55°	1173.0	1157.6	1155.4	1144.4	1144.4
57.5°	1069.6	1056.4	1047.6	1034.4	1036.6
60°	961.8	948.6	944.2	933.2	933.2
62.5°	860.5	849.5	842.9	831.9	823.1
65°	768.1	752.7	739.5	730.7	732.9
67.5°	666.9	649.2	642.6	633.8	627.2
70°	570.0	559.0	548.0	537.0	537.0
72.5°	479.8	468.8	462.2	449.0	444.6
75°	396.2	382.9	371.9	363.1	356.5
77.5°	312.5	299.3	292.7	281.7	281.7
80°	233.3	224.5	217.9	213.5	204.7
82.5°	160.7	156.3	149.7	143.1	136.5
85°	94.6	92.4	88.0	77.0	74.8
87.5°	37.4	37.4	33.0	30.8	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)