

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: P295995

Luminaire Tested: **24RLN-LD5-74-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295995
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-L93050-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: 6824.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

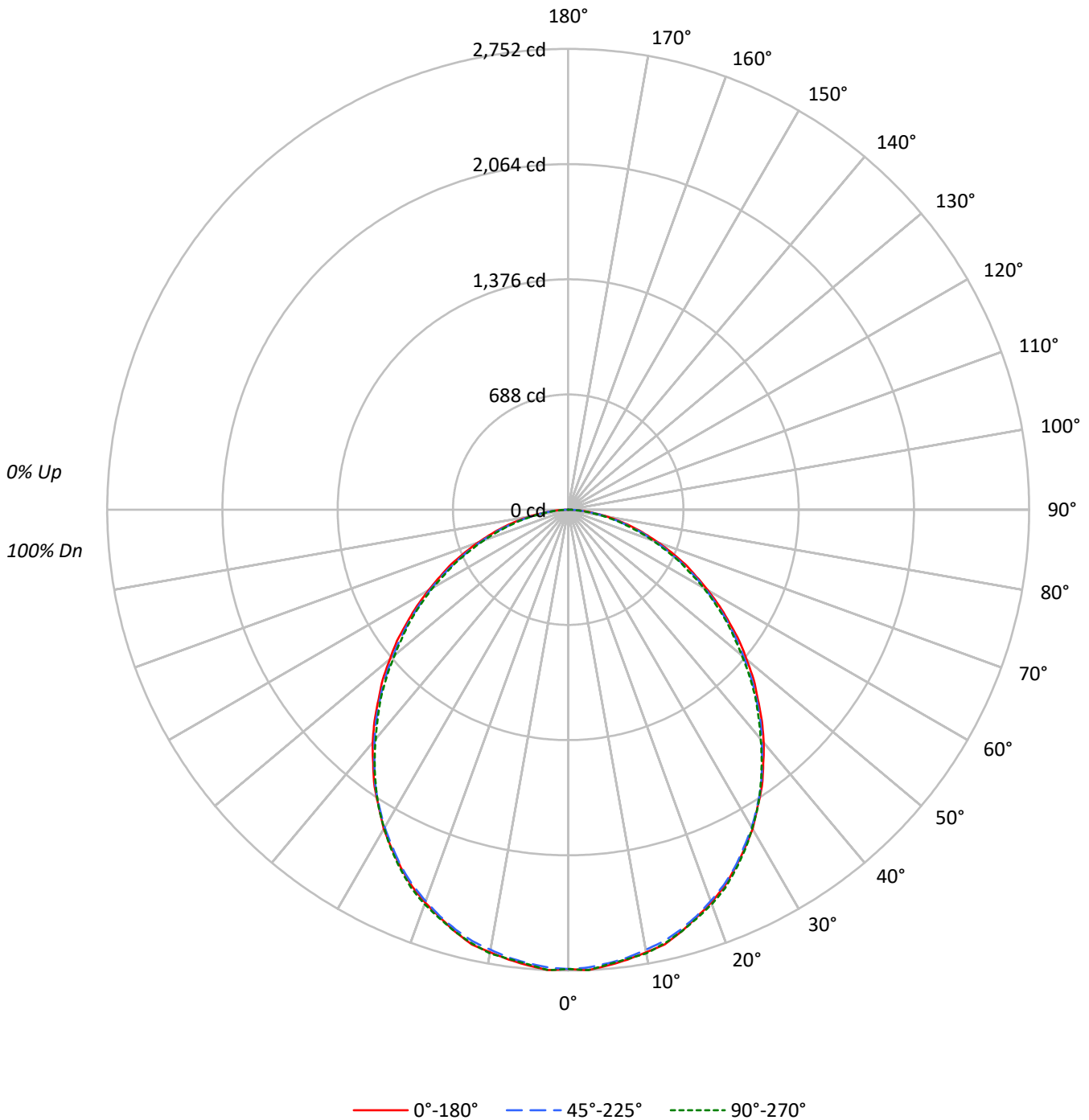
Input Watts (W): 56.451
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3691	3691	3691
5°	3690	3672	3681
10°	3666	3645	3675
15°	3634	3616	3634
20°	3575	3562	3590
25°	3504	3497	3517
30°	3420	3403	3413
35°	3312	3298	3291
40°	3190	3159	3140
45°	3045	3016	3004
50°	2908	2862	2829
55°	2753	2711	2685
60°	2589	2541	2512
65°	2446	2355	2334
70°	2243	2157	2113
75°	2060	1934	1854
80°	1808	1688	1586
85°	1462	1360	1156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.8	3.8
10°-20°	733.7	10.8
20°-30°	1085.3	15.9
30°-40°	1252.6	18.4
40°-50°	1223.4	17.9
50°-60°	1033.1	15.1
60°-70°	735.8	10.8
70°-80°	398.4	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°	2077.9	30.4
0°-40°	3330.5	48.8
0°-60°	5586.9	81.9
0°-90°	6824.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6824.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2743	2743	2743	2743	2743	
5°	2732	2732	2719	2725	2725	259
15°	2609	2598	2596	2607	2609	735
25°	2360	2347	2356	2364	2369	1087
35°	2017	2001	2008	2001	2003	1258
45°	1600	1587	1585	1578	1578	1238
55°	1173	1158	1156	1145	1145	1052
65°	768	753	740	731	733	757
75°	396	383	372	363	357	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°	2743.1	2743.1	2743.1	2743.1	2743.1
2.5°	2751.9	2740.9	2736.4	2738.7	2751.9
5°	2732.0	2732.0	2718.8	2725.4	2725.4
7.5°	2710.0	2712.2	2699.0	2710.0	2705.6
10°	2683.6	2677.0	2668.2	2685.8	2690.2
12.5°	2659.4	2644.0	2639.6	2650.6	2652.8
15°	2608.8	2597.8	2595.6	2606.6	2608.8
17.5°	2551.5	2553.7	2544.9	2560.3	2558.1
20°	2496.5	2492.1	2487.7	2505.3	2507.5
22.5°	2434.8	2421.6	2426.0	2441.4	2445.9
25°	2360.0	2346.8	2355.6	2364.4	2368.8
27.5°	2280.7	2274.1	2271.9	2282.9	2287.3
30°	2201.5	2190.5	2190.5	2203.7	2197.1
32.5°	2104.6	2095.8	2100.2	2104.6	2106.8
35°	2016.6	2001.2	2007.8	2001.2	2003.4
37.5°	1913.1	1902.1	1899.9	1897.7	1897.7
40°	1816.2	1807.4	1798.6	1798.6	1787.6
42.5°	1710.6	1699.5	1695.1	1688.5	1681.9
45°	1600.5	1587.3	1585.1	1578.5	1578.5
47.5°	1501.4	1481.6	1479.4	1466.2	1466.2
50°	1389.1	1375.9	1367.1	1358.3	1351.7
52.5°	1287.9	1274.7	1261.5	1252.6	1246.0
55°	1173.4	1158.0	1155.8	1144.8	1144.8
57.5°	1069.9	1056.7	1047.9	1034.7	1036.9
60°	962.1	948.8	944.4	933.4	933.4
62.5°	860.8	849.8	843.2	832.2	823.4
65°	768.3	752.9	739.7	730.9	733.1
67.5°	667.1	649.4	642.8	634.0	627.4
70°	570.2	559.2	548.2	537.2	537.2
72.5°	479.9	468.9	462.3	449.1	444.7
75°	396.3	383.1	372.1	363.2	356.6
77.5°	312.6	299.4	292.8	281.8	281.8
80°	233.4	224.6	217.9	213.5	204.7
82.5°	160.7	156.3	149.7	143.1	136.5
85°	94.7	92.5	88.1	77.1	74.9
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)