

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: P295929

Luminaire Tested: **24RLN-LD5-67-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295929
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-LD5-67-UNV-L82765-W2A1-U-4000K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER
WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6685.0 lumens
Efficiency: N/A
Efficacy: 135.9 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

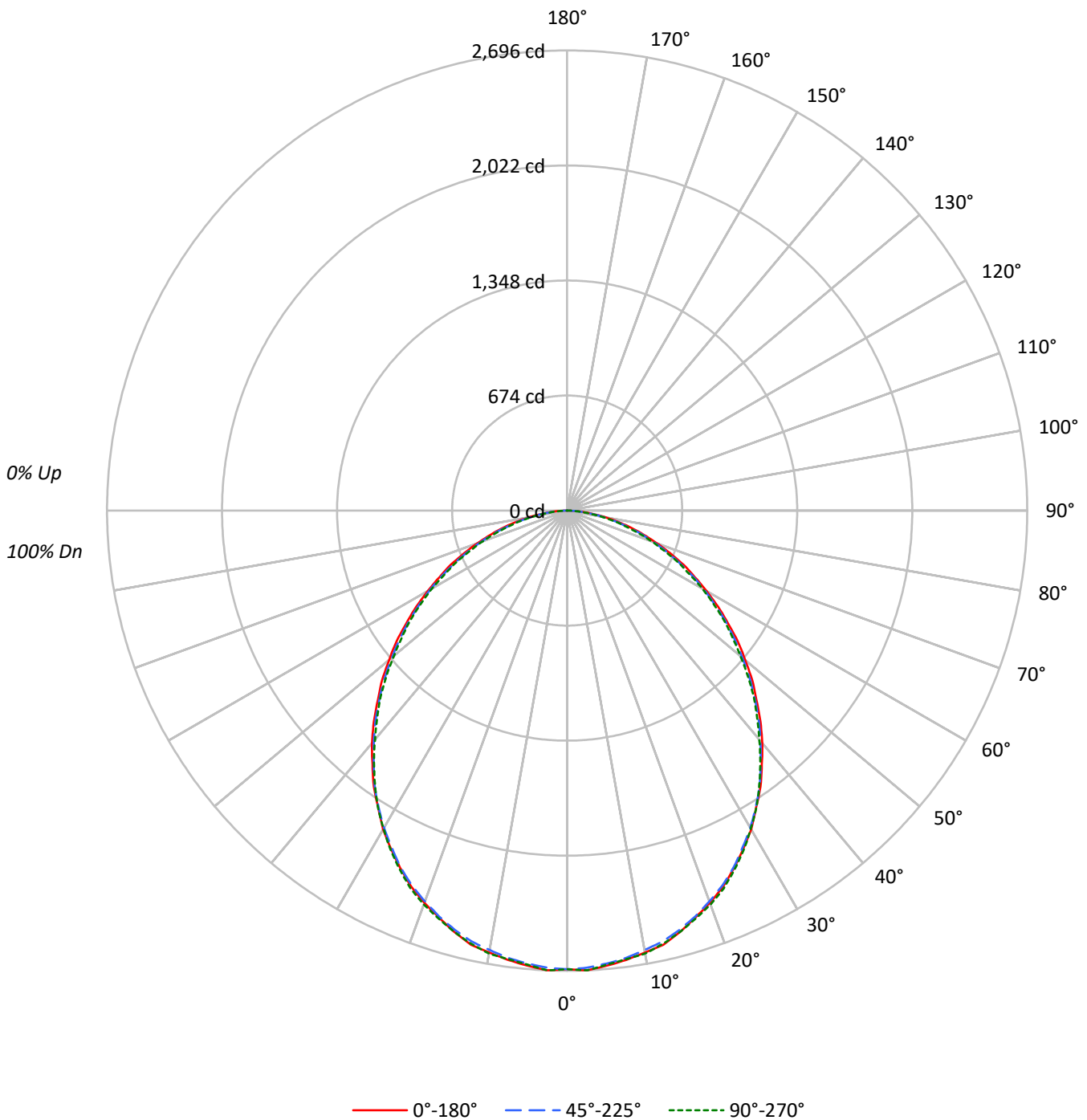
Input Watts (W): 49.197
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3616	3616	3616
5°	3615	3597	3606
10°	3592	3571	3601
15°	3560	3542	3560
20°	3502	3489	3517
25°	3432	3426	3445
30°	3351	3334	3344
35°	3245	3231	3223
40°	3125	3095	3076
45°	2983	2955	2942
50°	2848	2803	2772
55°	2696	2656	2631
60°	2536	2490	2461
65°	2396	2307	2287
70°	2198	2113	2070
75°	2018	1895	1816
80°	1771	1654	1554
85°	1431	1332	1132



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	3.8
10°-20°	718.8	10.8
20°-30°	1063.2	15.9
30°-40°	1227.1	18.4
40°-50°	1198.5	17.9
50°-60°	1012.0	15.1
60°-70°	720.8	10.8
70°-80°	390.3	5.8
80°-90°	100.7	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°	2035.6	30.4
0°-40°	3262.6	48.8
0°-60°	5473.1	81.9
0°-90°	6685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2687	2687	2687	2687	2687	
5°	2676	2676	2664	2670	2670	254
15°	2556	2545	2543	2554	2556	720
25°	2312	2299	2308	2316	2321	1064
35°	1976	1960	1967	1960	1962	1233
45°	1568	1555	1553	1546	1546	1212
55°	1150	1134	1132	1122	1122	1031
65°	753	738	725	716	718	742
75°	388	375	364	356	349	411
85°	93	91	86	76	73	109
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2687.2	2687.2	2687.2	2687.2	2687.2
2.5°	2695.8	2685.0	2680.7	2682.9	2695.8
5°	2676.4	2676.4	2663.5	2669.9	2669.9
7.5°	2654.8	2657.0	2644.0	2654.8	2650.5
10°	2629.0	2622.5	2613.9	2631.1	2635.4
12.5°	2605.2	2590.1	2585.8	2596.6	2598.8
15°	2555.6	2544.8	2542.7	2553.5	2555.6
17.5°	2499.6	2501.7	2493.1	2508.2	2506.0
20°	2445.6	2441.3	2437.0	2454.3	2456.4
22.5°	2385.2	2372.3	2376.6	2391.7	2396.0
25°	2311.9	2299.0	2307.6	2316.2	2320.6
27.5°	2234.3	2227.8	2225.7	2236.4	2240.8
30°	2156.6	2145.9	2145.9	2158.8	2152.3
32.5°	2061.8	2053.1	2057.4	2061.8	2063.9
35°	1975.5	1960.4	1966.9	1960.4	1962.5
37.5°	1874.1	1863.3	1861.2	1859.0	1859.0
40°	1779.2	1770.6	1762.0	1762.0	1751.2
42.5°	1675.7	1664.9	1660.6	1654.1	1647.7
45°	1567.9	1554.9	1552.8	1546.3	1546.3
47.5°	1470.8	1451.4	1449.3	1436.3	1436.3
50°	1360.8	1347.9	1339.3	1330.7	1324.2
52.5°	1261.6	1248.7	1235.8	1227.1	1220.7
55°	1149.5	1134.4	1132.2	1121.5	1121.5
57.5°	1048.1	1035.2	1026.6	1013.6	1015.8
60°	942.5	929.5	925.2	914.4	914.4
62.5°	843.2	832.5	826.0	815.2	806.6
65°	752.7	737.6	724.6	716.0	718.2
67.5°	653.5	636.2	629.7	621.1	614.6
70°	558.6	547.8	537.0	526.2	526.2
72.5°	470.1	459.4	452.9	440.0	435.6
75°	388.2	375.3	364.5	355.8	349.4
77.5°	306.2	293.3	286.8	276.1	276.1
80°	228.6	220.0	213.5	209.2	200.6
82.5°	157.4	153.1	146.7	140.2	133.7
85°	92.7	90.6	86.3	75.5	73.3
87.5°	36.7	36.7	32.3	30.2	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)