

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: P295943

Luminaire Tested: **24RLN-LD5-74-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P295943
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-6500K
Description: RLN LED 2x4 TUNABLE WHITE TROFFER WITH STANDARD LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7771.0 lumens
Efficiency: N/A
Efficacy: 135.2 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

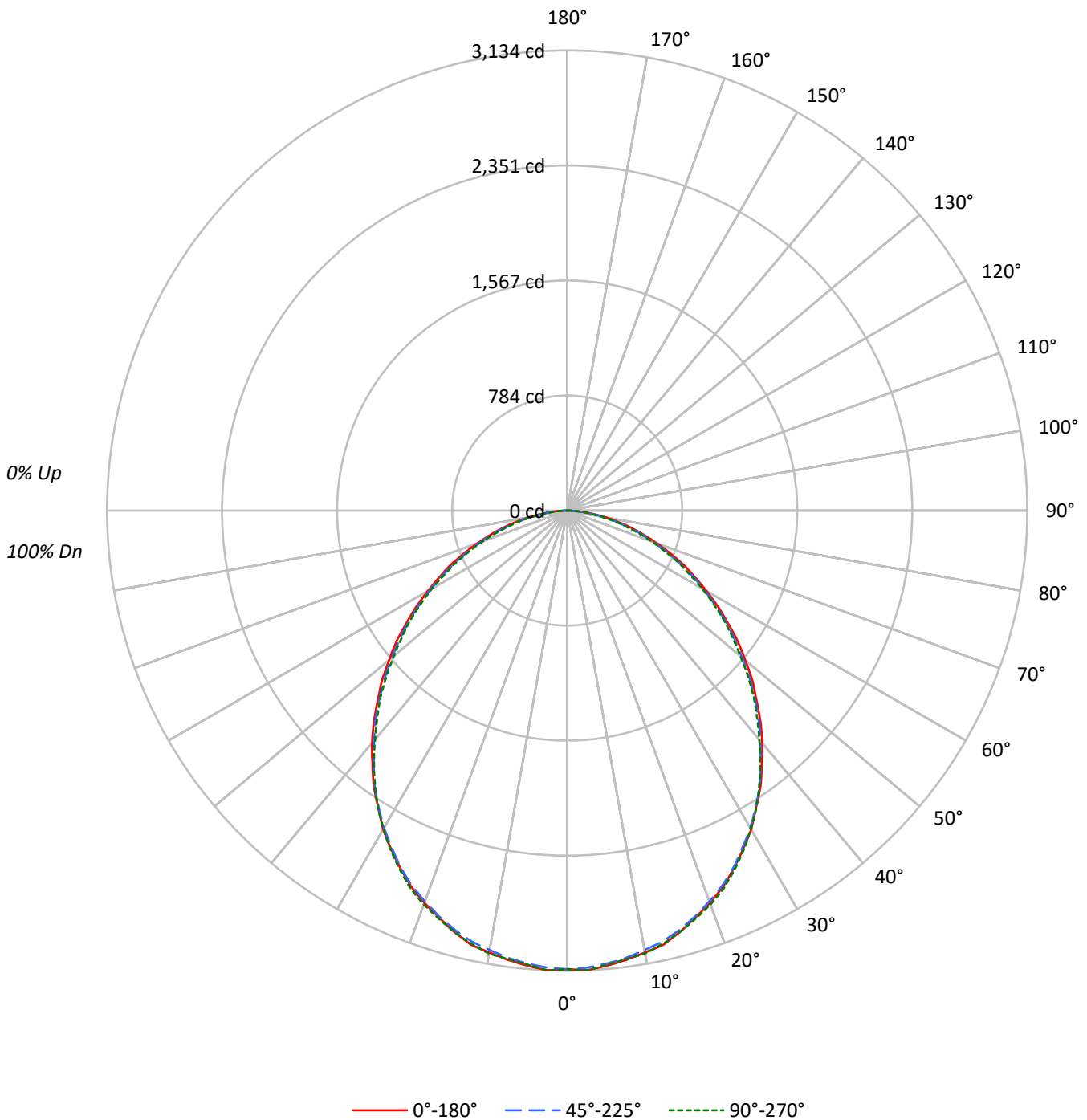
Input Watts (W): 57.474
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4203	4203	4203
5°	4202	4182	4192
10°	4175	4151	4186
15°	4138	4117	4138
20°	4071	4056	4089
25°	3990	3982	4005
30°	3895	3876	3887
35°	3772	3756	3747
40°	3633	3597	3576
45°	3468	3435	3420
50°	3311	3259	3222
55°	3134	3088	3058
60°	2948	2894	2861
65°	2785	2682	2658
70°	2554	2456	2406
75°	2346	2203	2111
80°	2059	1923	1807
85°	1664	1548	1315



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.7	3.8
10°-20°	835.6	10.8
20°-30°	1236.0	15.9
30°-40°	1426.4	18.4
40°-50°	1393.2	17.9
50°-60°	1176.4	15.1
60°-70°	838.0	10.8
70°-80°	453.7	5.8
80°-90°	117.1	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°	2366.2	30.4
0°-40°	3792.7	48.8
0°-60°	6362.3	81.9
0°-90°	7771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7771.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3124	3124	3124	3124	3124	
5°	3111	3111	3096	3104	3104	295
15°	2971	2958	2956	2968	2971	837
25°	2688	2672	2682	2692	2698	1237
35°	2296	2279	2286	2279	2281	1433
45°	1823	1808	1805	1798	1798	1409
55°	1336	1319	1316	1304	1304	1198
65°	875	857	842	832	835	863
75°	451	436	424	414	406	478
85°	108	105	100	88	85	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3123.7	3123.7	3123.7	3123.7	3123.7
2.5°	3133.7	3121.2	3116.2	3118.7	3133.7
5°	3111.2	3111.2	3096.1	3103.7	3103.7
7.5°	3086.1	3088.6	3073.6	3086.1	3081.1
10°	3056.0	3048.5	3038.5	3058.5	3063.6
12.5°	3028.5	3010.9	3005.9	3018.4	3020.9
15°	2970.8	2958.3	2955.8	2968.3	2970.8
17.5°	2905.6	2908.1	2898.1	2915.6	2913.1
20°	2842.9	2837.9	2832.9	2853.0	2855.5
22.5°	2772.7	2757.7	2762.7	2780.3	2785.3
25°	2687.5	2672.5	2682.5	2692.5	2697.5
27.5°	2597.3	2589.7	2587.2	2599.8	2604.8
30°	2507.0	2494.5	2494.5	2509.5	2502.0
32.5°	2396.7	2386.7	2391.7	2396.7	2399.2
35°	2296.4	2278.9	2286.4	2278.9	2281.4
37.5°	2178.6	2166.0	2163.5	2161.0	2161.0
40°	2068.3	2058.2	2048.2	2048.2	2035.7
42.5°	1947.9	1935.4	1930.4	1922.9	1915.3
45°	1822.6	1807.5	1805.0	1797.5	1797.5
47.5°	1709.8	1687.2	1684.7	1669.7	1669.7
50°	1581.9	1566.9	1556.8	1546.8	1539.3
52.5°	1466.6	1451.6	1436.5	1426.5	1419.0
55°	1336.2	1318.7	1316.2	1303.6	1303.6
57.5°	1218.4	1203.4	1193.3	1178.3	1180.8
60°	1095.6	1080.5	1075.5	1063.0	1063.0
62.5°	980.2	967.7	960.2	947.6	937.6
65°	874.9	857.4	842.4	832.3	834.8
67.5°	759.6	739.6	732.0	722.0	714.5
70°	649.3	636.8	624.2	611.7	611.7
72.5°	546.5	534.0	526.5	511.4	506.4
75°	451.3	436.2	423.7	413.7	406.1
77.5°	356.0	341.0	333.4	320.9	320.9
80°	265.7	255.7	248.2	243.2	233.2
82.5°	183.0	178.0	170.5	163.0	155.4
85°	107.8	105.3	100.3	87.7	85.2
87.5°	42.6	42.6	37.6	35.1	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)