

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: P293014

Luminaire Tested: **24GR-LD5-64-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293014
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6654.0 lumens
Efficiency: N/A
Efficacy: 140.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

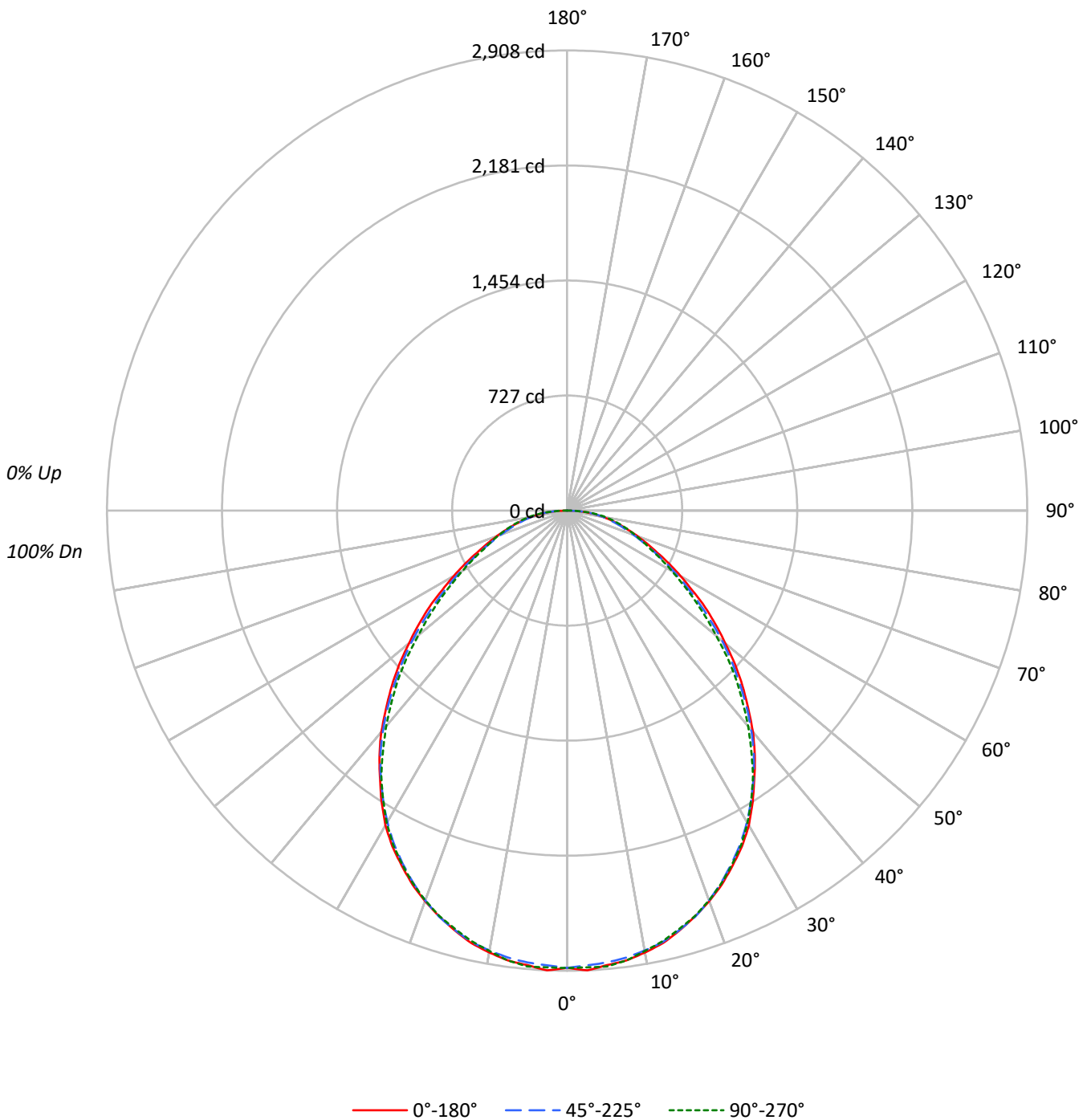
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3889	3889	3889
5°	3895	3872	3906
10°	3874	3857	3861
15°	3825	3822	3812
20°	3761	3753	3753
25°	3674	3653	3661
30°	3567	3531	3542
35°	3388	3372	3363
40°	3208	3179	3124
45°	2982	2930	2873
50°	2732	2672	2571
55°	2495	2382	2302
60°	2223	2116	2061
65°	2001	1896	1870
70°	1857	1744	1814
75°	1776	1698	1841
80°	1776	1776	1967
85°	1843	1865	2076



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.0	4.1
10°-20°	772.5	11.6
20°-30°	1133.7	17.0
30°-40°	1281.7	19.3
40°-50°	1184.6	17.8
50°-60°	912.7	13.7
60°-70°	604.3	9.1
70°-80°	359.8	5.4
80°-90°	131.8	2.0
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°	2179.1	32.7
0°-40°	3460.8	52.0
0°-60°	5558.1	83.5
0°-90°	6654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2890	2890	2890	2890	2890	
5°	2884	2884	2867	2868	2892	274
15°	2746	2741	2744	2742	2737	774
25°	2474	2468	2461	2458	2466	1139
35°	2063	2060	2053	2044	2048	1291
45°	1567	1556	1540	1512	1510	1207
55°	1064	1042	1016	988	981	949
65°	629	619	596	590	587	630
75°	342	334	327	342	354	364
85°	119	112	121	133	134	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2890.3	2890.3	2890.3	2890.3	2890.3
2.5°	2908.2	2893.1	2876.6	2876.6	2889.0
5°	2883.5	2883.5	2867.0	2868.4	2891.7
7.5°	2868.4	2860.1	2849.2	2849.2	2867.0
10°	2835.4	2828.6	2823.1	2820.3	2825.8
12.5°	2799.8	2788.8	2792.9	2788.8	2787.4
15°	2746.2	2740.7	2743.5	2742.1	2736.6
17.5°	2688.6	2685.8	2691.3	2681.7	2685.8
20°	2626.8	2618.6	2621.3	2615.9	2621.3
22.5°	2556.8	2551.3	2544.5	2537.6	2548.6
25°	2474.5	2467.6	2460.8	2458.0	2466.3
27.5°	2392.1	2381.2	2371.6	2368.8	2381.2
30°	2296.1	2283.7	2272.7	2270.0	2279.6
32.5°	2182.2	2179.4	2165.7	2160.2	2164.3
35°	2062.8	2060.0	2053.2	2043.5	2047.7
37.5°	1948.9	1947.5	1937.9	1921.4	1910.4
40°	1826.7	1817.1	1810.2	1786.9	1778.7
42.5°	1692.2	1689.5	1677.1	1651.0	1641.4
45°	1567.3	1556.3	1539.9	1512.4	1509.7
47.5°	1438.3	1423.2	1408.1	1373.8	1372.4
50°	1305.2	1294.2	1276.4	1242.1	1228.3
52.5°	1181.7	1166.6	1141.9	1108.9	1102.1
55°	1063.6	1041.7	1015.6	988.2	981.3
57.5°	937.4	927.8	896.2	874.2	866.0
60°	826.2	818.0	786.4	765.8	765.8
62.5°	726.0	713.7	686.2	672.5	672.5
65°	628.6	619.0	595.6	590.1	587.4
67.5°	544.9	532.5	516.0	514.7	521.5
70°	472.1	457.0	443.3	457.0	461.1
72.5°	403.5	393.9	381.5	399.4	407.6
75°	341.7	333.5	326.6	341.7	354.1
77.5°	285.5	277.2	277.2	293.7	304.7
80°	229.2	223.7	229.2	242.9	253.9
82.5°	175.7	171.6	178.4	192.1	199.0
85°	119.4	112.5	120.8	133.1	134.5
87.5°	56.3	54.9	60.4	68.6	67.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)