

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: P293267

Luminaire Tested: **24GR-LD5-64-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293267
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-64-F125-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6671.0 lumens
Efficiency: N/A
Efficacy: 141.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

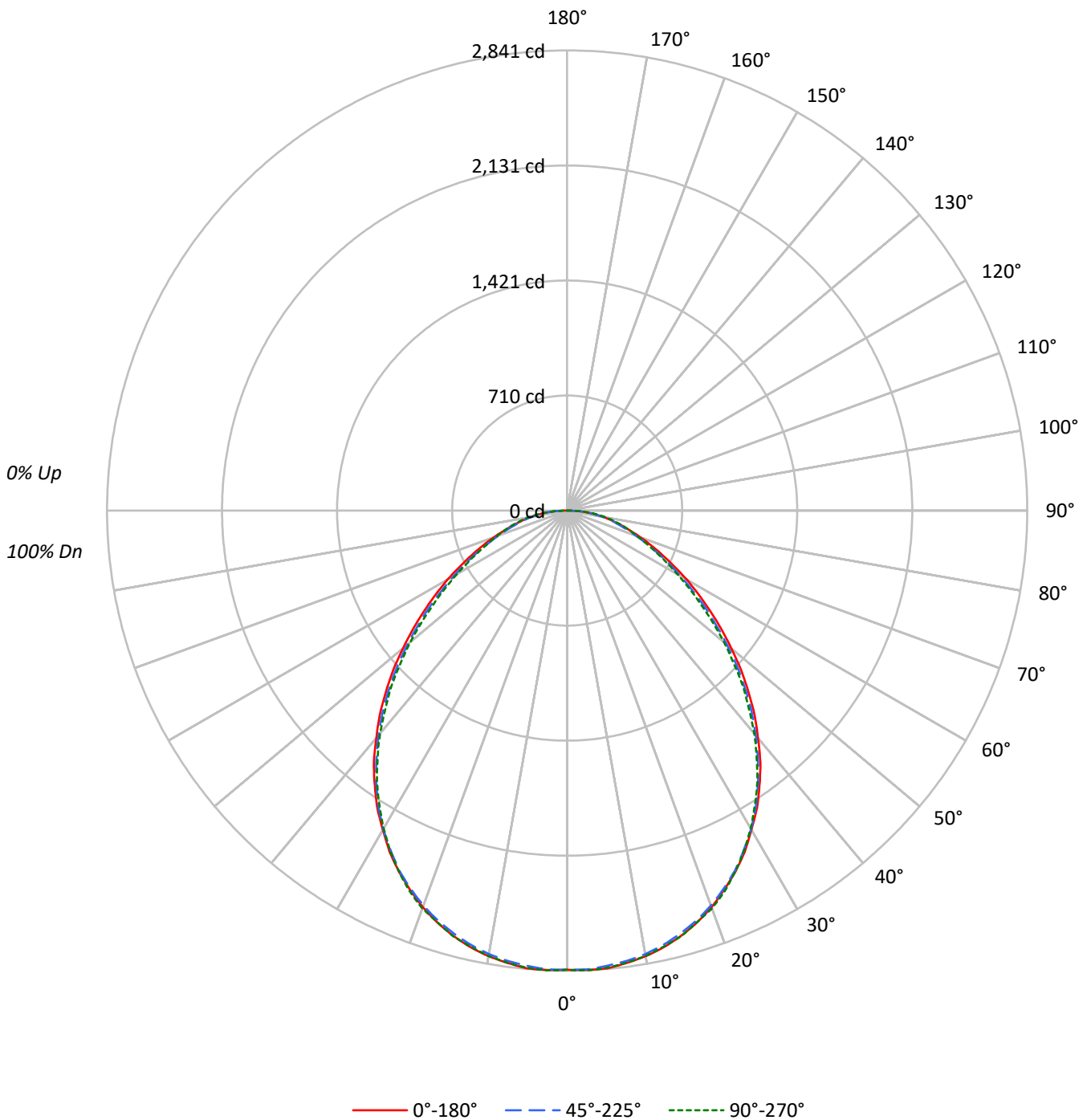
Input Watts (W): 47.244
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3815	3815	3815
5°	3832	3811	3826
10°	3817	3798	3815
15°	3787	3766	3790
20°	3731	3716	3743
25°	3650	3641	3649
30°	3535	3528	3520
35°	3402	3376	3362
40°	3220	3183	3158
45°	3012	2956	2921
50°	2768	2693	2647
55°	2524	2431	2360
60°	2292	2169	2113
65°	2065	1949	1916
70°	1891	1768	1817
75°	1767	1686	1811
80°	1753	1721	1891
85°	1786	1803	2061



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.3	4.0
10°-20°	762.8	11.4
20°-30°	1127.0	16.9
30°-40°	1281.2	19.2
40°-50°	1196.5	17.9
50°-60°	930.5	13.9
60°-70°	617.4	9.3
70°-80°	357.3	5.4
80°-90°	129.9	1.9
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°	2158.1	32.4
0°-40°	3439.4	51.6
0°-60°	5566.4	83.4
0°-90°	6671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2835	2835	2835	2835	2835	
5°	2837	2823	2822	2827	2833	269
15°	2718	2705	2704	2703	2720	766
25°	2459	2448	2452	2447	2458	1130
35°	2071	2060	2055	2041	2047	1293
45°	1583	1570	1554	1534	1535	1220
55°	1076	1060	1036	1009	1006	965
65°	649	629	612	601	602	648
75°	340	332	324	339	348	364
85°	116	114	117	132	134	126
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2835.2	2835.2	2835.2	2835.2	2835.2
2.5°	2839.3	2831.0	2835.2	2832.0	2841.4
5°	2837.3	2822.7	2821.6	2826.8	2833.1
7.5°	2817.4	2801.8	2804.9	2804.9	2815.4
10°	2793.5	2777.8	2779.9	2781.0	2792.4
12.5°	2761.1	2745.5	2746.5	2745.5	2757.0
15°	2718.4	2704.8	2703.8	2702.7	2720.5
17.5°	2666.3	2647.5	2653.7	2654.8	2664.2
20°	2605.8	2591.2	2595.3	2594.3	2614.1
22.5°	2533.8	2523.4	2526.5	2524.4	2543.2
25°	2458.7	2448.3	2452.5	2447.3	2457.7
27.5°	2374.3	2367.0	2362.8	2359.7	2367.0
30°	2275.2	2271.1	2271.1	2257.5	2265.8
32.5°	2181.4	2167.8	2167.8	2162.6	2157.4
35°	2070.9	2060.4	2055.2	2040.6	2046.9
37.5°	1960.3	1936.3	1934.3	1922.8	1922.8
40°	1833.1	1819.6	1812.3	1799.7	1797.7
42.5°	1712.2	1698.6	1686.1	1665.2	1661.1
45°	1582.9	1570.3	1553.7	1533.9	1534.9
47.5°	1454.6	1436.9	1421.2	1397.3	1394.1
50°	1322.2	1309.7	1286.7	1265.9	1264.8
52.5°	1198.1	1178.3	1157.4	1132.4	1132.4
55°	1076.1	1060.5	1036.5	1009.4	1006.2
57.5°	959.3	944.7	917.6	897.8	892.6
60°	851.9	831.1	806.0	789.3	785.2
62.5°	744.5	725.7	707.0	690.3	689.2
65°	648.6	628.8	612.1	600.6	601.7
67.5°	562.0	545.3	526.6	523.4	524.5
70°	480.7	463.0	449.4	456.7	461.9
72.5°	403.5	394.2	384.8	395.2	402.5
75°	339.9	331.6	324.3	338.9	348.3
77.5°	281.5	275.3	274.2	286.7	295.1
80°	226.3	219.0	222.1	236.7	244.0
82.5°	172.0	166.8	167.9	185.6	190.8
85°	115.7	113.7	116.8	132.4	133.5
87.5°	61.5	61.5	63.6	73.0	69.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)