

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: P293247

Luminaire Tested: **24GR-LD5-48-F125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293247
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-LD5-48-F125-UNV-L82765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4993.0 lumens
Efficiency: N/A
Efficacy: 148.7 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

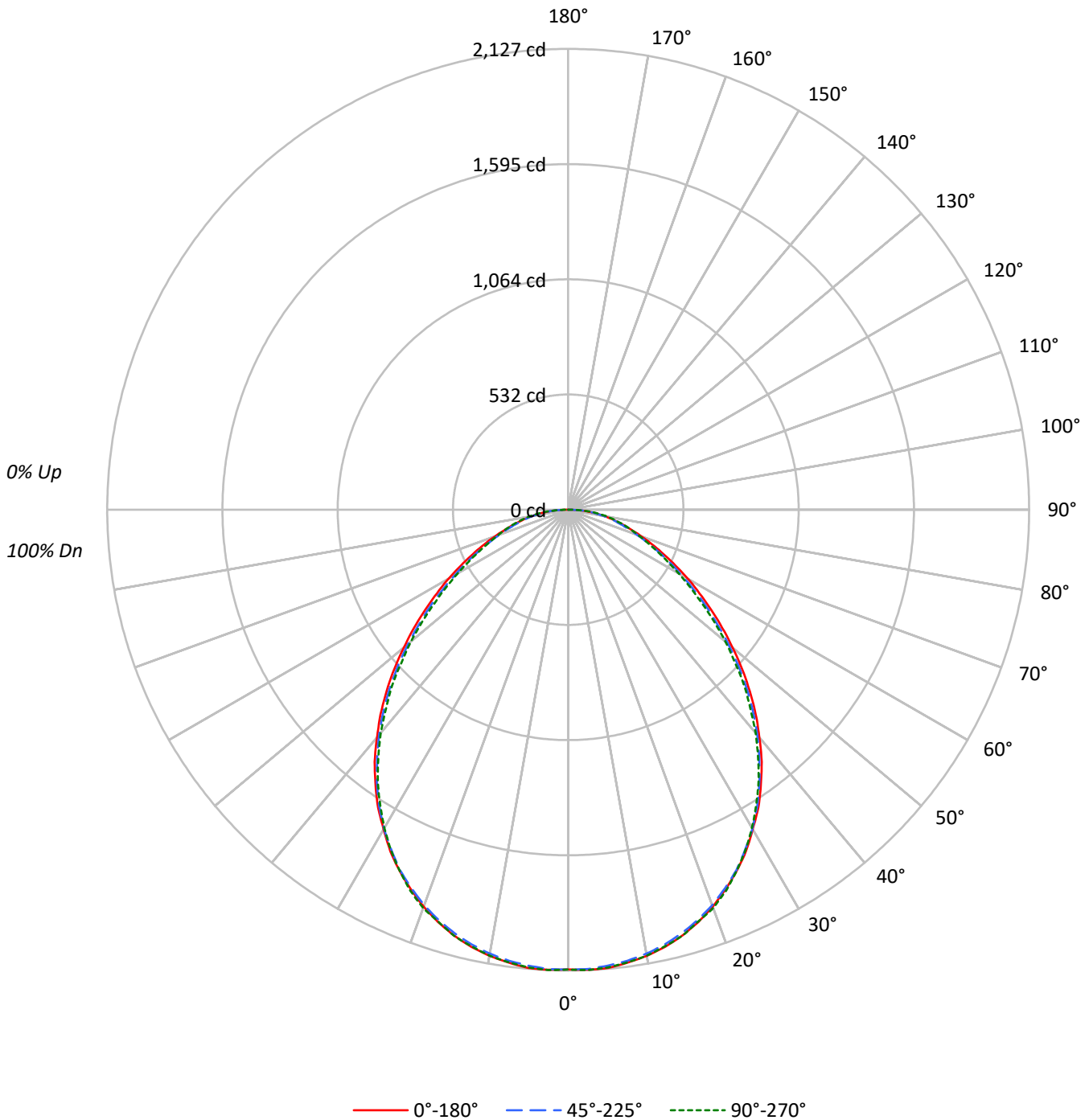
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2855	2855	2855
5°	2868	2852	2864
10°	2857	2843	2855
15°	2834	2819	2836
20°	2793	2781	2802
25°	2732	2725	2731
30°	2646	2641	2635
35°	2546	2527	2516
40°	2410	2382	2363
45°	2254	2213	2186
50°	2071	2016	1982
55°	1889	1820	1767
60°	1716	1623	1581
65°	1545	1458	1434
70°	1415	1323	1360
75°	1323	1262	1355
80°	1313	1288	1415
85°	1337	1349	1542



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.8	4.0
10°-20°	571.0	11.4
20°-30°	843.5	16.9
30°-40°	959.0	19.2
40°-50°	895.5	17.9
50°-60°	696.4	13.9
60°-70°	462.1	9.3
70°-80°	267.4	5.4
80°-90°	97.2	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°	1615.3	32.4
0°-40°	2574.2	51.6
0°-60°	4166.2	83.4
0°-90°	4993.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2122	2122	2122	2122	2122	
5°	2124	2113	2112	2116	2120	202
15°	2035	2024	2024	2023	2036	573
25°	1840	1832	1836	1832	1840	846
35°	1550	1542	1538	1527	1532	968
45°	1185	1175	1163	1148	1149	913
55°	805	794	776	756	753	722
65°	485	471	458	450	450	485
75°	254	248	243	254	261	272
85°	87	85	87	99	100	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2122.0	2122.0	2122.0	2122.0	2122.0
2.5°	2125.1	2118.9	2122.0	2119.7	2126.7
5°	2123.6	2112.7	2111.9	2115.8	2120.5
7.5°	2108.8	2097.1	2099.4	2099.4	2107.2
10°	2090.8	2079.1	2080.7	2081.4	2090.0
12.5°	2066.6	2054.9	2055.7	2054.9	2063.5
15°	2034.6	2024.5	2023.7	2022.9	2036.2
17.5°	1995.6	1981.5	1986.2	1987.0	1994.0
20°	1950.3	1939.4	1942.5	1941.7	1956.6
22.5°	1896.5	1888.7	1891.0	1889.5	1903.5
25°	1840.3	1832.5	1835.6	1831.7	1839.5
27.5°	1777.1	1771.6	1768.5	1766.1	1771.6
30°	1702.9	1699.8	1699.8	1689.7	1695.9
32.5°	1632.7	1622.5	1622.5	1618.6	1614.7
35°	1550.0	1542.2	1538.3	1527.3	1532.0
37.5°	1467.2	1449.3	1447.7	1439.1	1439.1
40°	1372.0	1361.9	1356.4	1347.0	1345.5
42.5°	1281.5	1271.3	1262.0	1246.4	1243.2
45°	1184.7	1175.3	1162.9	1148.0	1148.8
47.5°	1088.7	1075.5	1063.7	1045.8	1043.5
50°	989.6	980.2	963.1	947.5	946.7
52.5°	896.7	881.9	866.3	847.6	847.6
55°	805.4	793.7	775.8	755.5	753.1
57.5°	718.0	707.1	686.8	672.0	668.1
60°	637.6	622.0	603.3	590.8	587.7
62.5°	557.2	543.2	529.1	516.7	515.9
65°	485.4	470.6	458.1	449.5	450.3
67.5°	420.7	408.2	394.1	391.8	392.6
70°	359.8	346.5	336.4	341.8	345.7
72.5°	302.0	295.0	288.0	295.8	301.3
75°	254.4	248.2	242.7	253.6	260.7
77.5°	210.7	206.0	205.3	214.6	220.9
80°	169.4	163.9	166.2	177.2	182.6
82.5°	128.8	124.9	125.7	138.9	142.8
85°	86.6	85.1	87.4	99.1	99.9
87.5°	46.0	46.0	47.6	54.6	52.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)