

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: P293006

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293006
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-LD5-56-F1-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5875.0 lumens
Efficiency: N/A
Efficacy: 146.6 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

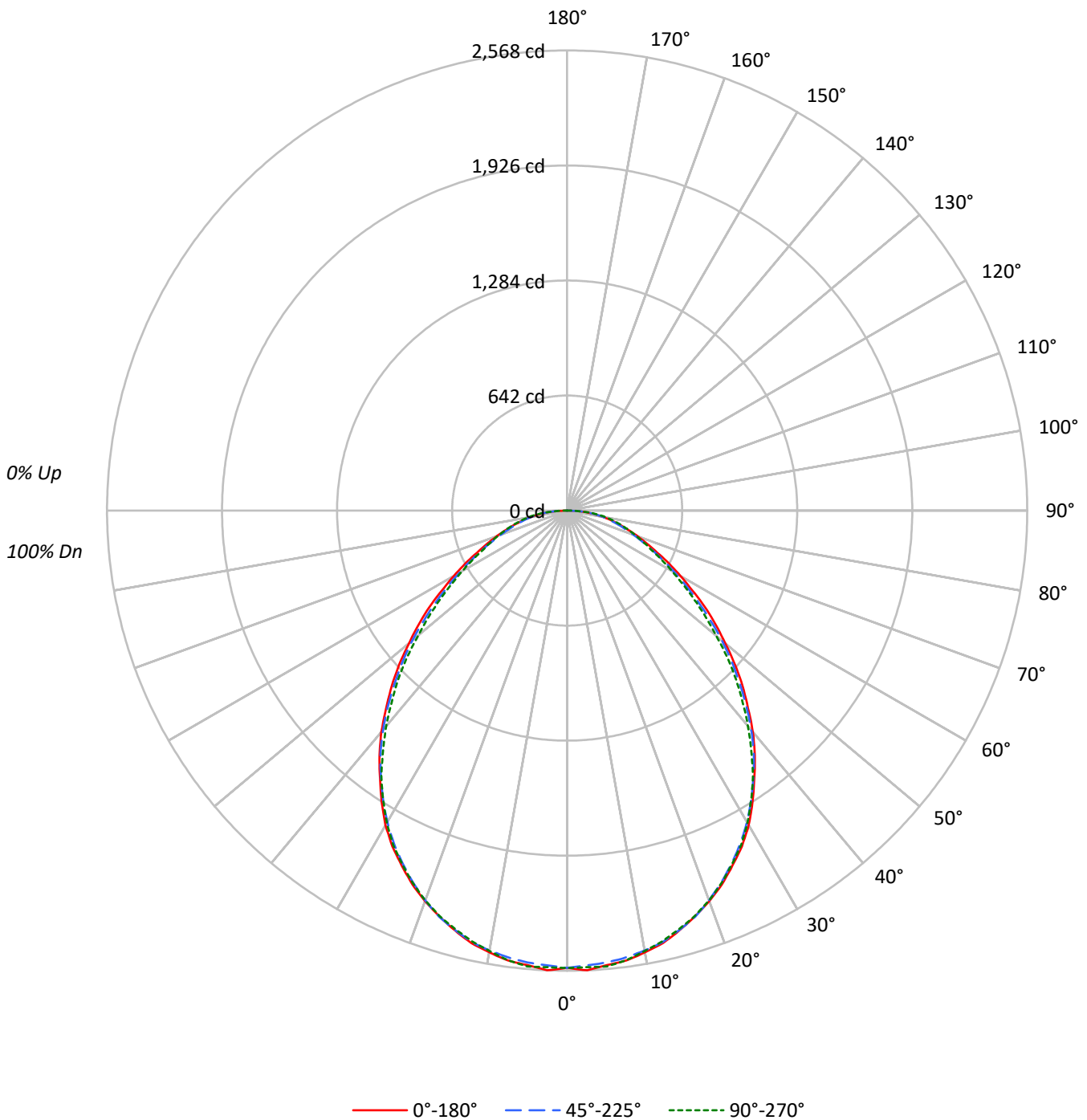
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3434	3434	3434
5°	3439	3419	3448
10°	3420	3406	3409
15°	3377	3374	3366
20°	3321	3314	3314
25°	3244	3226	3233
30°	3150	3118	3127
35°	2992	2978	2970
40°	2833	2807	2758
45°	2633	2587	2536
50°	2412	2359	2270
55°	2203	2103	2032
60°	1963	1868	1820
65°	1767	1674	1651
70°	1640	1540	1602
75°	1568	1499	1625
80°	1568	1568	1737
85°	1627	1646	1834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	4.1
10°-20°	682.0	11.6
20°-30°	1001.0	17.0
30°-40°	1131.7	19.3
40°-50°	1045.9	17.8
50°-60°	805.8	13.7
60°-70°	533.6	9.1
70°-80°	317.7	5.4
80°-90°	116.4	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°	1924.0	32.7
0°-40°	3055.7	52.0
0°-60°	4907.4	83.5
0°-90°	5875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2552	2552	2552	2552	2552	
5°	2546	2546	2531	2533	2553	242
15°	2425	2420	2422	2421	2416	683
25°	2185	2179	2173	2170	2178	1006
35°	1821	1819	1813	1804	1808	1140
45°	1384	1374	1360	1335	1333	1066
55°	939	920	897	872	866	838
65°	555	546	526	521	519	556
75°	302	294	288	302	313	322
85°	105	99	107	118	119	112
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2552.0	2552.0	2552.0	2552.0	2552.0
2.5°	2567.7	2554.4	2539.8	2539.8	2550.7
5°	2545.9	2545.9	2531.4	2532.6	2553.2
7.5°	2532.6	2525.3	2515.6	2515.6	2531.4
10°	2503.5	2497.4	2492.6	2490.2	2495.0
12.5°	2472.0	2462.3	2465.9	2462.3	2461.1
15°	2424.7	2419.9	2422.3	2421.1	2416.2
17.5°	2373.8	2371.4	2376.3	2367.8	2371.4
20°	2319.3	2312.0	2314.5	2309.6	2314.5
22.5°	2257.5	2252.7	2246.6	2240.5	2250.2
25°	2184.8	2178.7	2172.7	2170.3	2177.5
27.5°	2112.1	2102.4	2093.9	2091.5	2102.4
30°	2027.3	2016.4	2006.7	2004.2	2012.7
32.5°	1926.7	1924.3	1912.2	1907.3	1910.9
35°	1821.3	1818.8	1812.8	1804.3	1807.9
37.5°	1720.7	1719.5	1711.0	1696.5	1686.8
40°	1612.8	1604.4	1598.3	1577.7	1570.4
42.5°	1494.1	1491.7	1480.8	1457.7	1449.3
45°	1383.8	1374.1	1359.6	1335.4	1332.9
47.5°	1269.9	1256.6	1243.3	1213.0	1211.8
50°	1152.4	1142.7	1126.9	1096.6	1084.5
52.5°	1043.3	1030.0	1008.2	979.1	973.0
55°	939.1	919.7	896.7	872.5	866.4
57.5°	827.6	819.1	791.3	771.9	764.6
60°	729.5	722.2	694.3	676.2	676.2
62.5°	641.0	630.1	605.9	593.8	593.8
65°	555.0	546.5	525.9	521.1	518.6
67.5°	481.1	470.2	455.6	454.4	460.5
70°	416.8	403.5	391.4	403.5	407.2
72.5°	356.3	347.8	336.9	352.6	359.9
75°	301.7	294.5	288.4	301.7	312.6
77.5°	252.0	244.8	244.8	259.3	269.0
80°	202.4	197.5	202.4	214.5	224.2
82.5°	155.1	151.5	157.5	169.6	175.7
85°	105.4	99.4	106.6	117.5	118.8
87.5°	49.7	48.5	53.3	60.6	59.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)