

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: P293313

Luminaire Tested: **24GR-LD5-56-F125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293313
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-LD5-56-F125-UNV-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4790.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

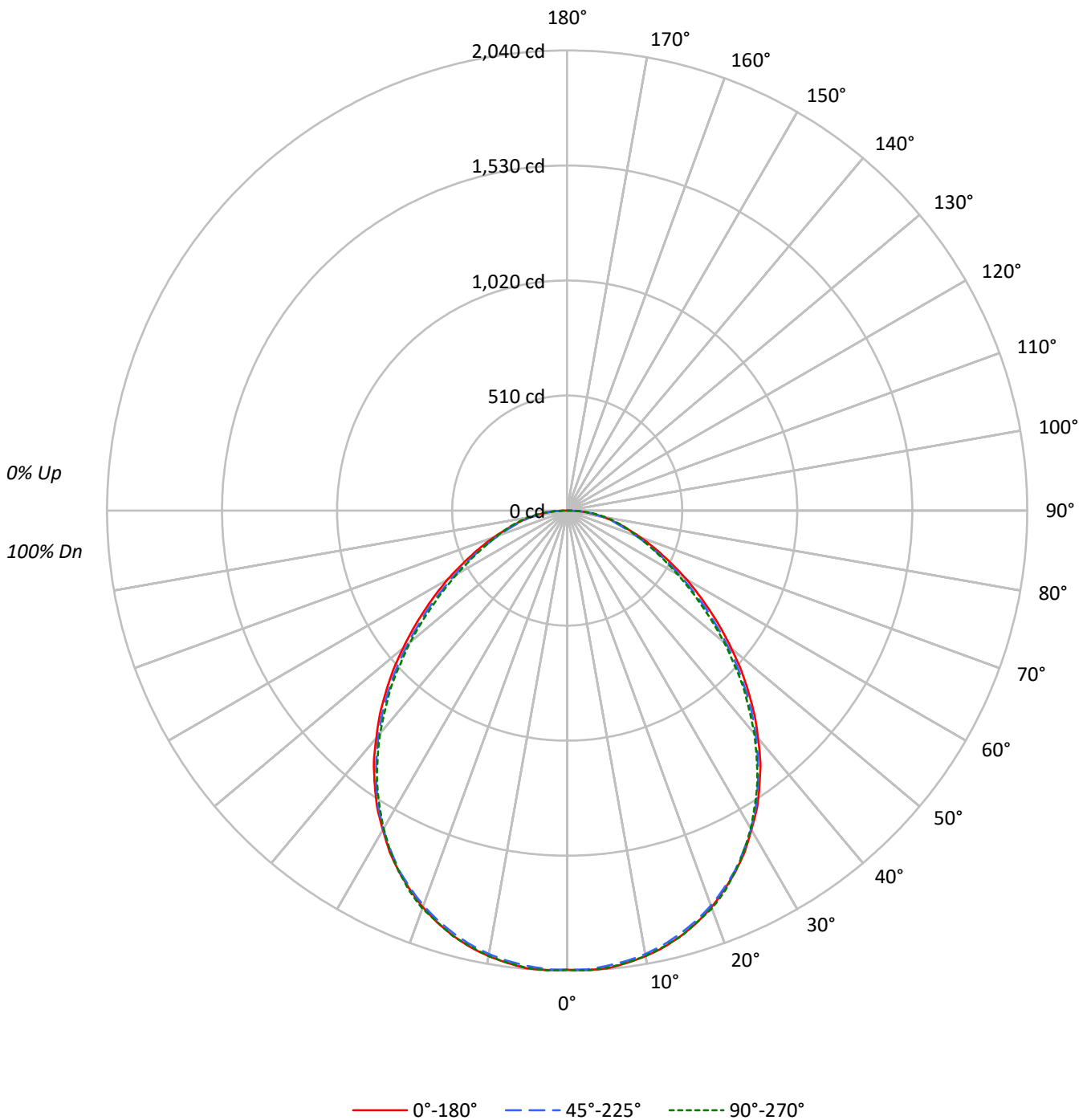
Input Watts (W): 39.707373
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2739	2739	2739
5°	2752	2736	2748
10°	2740	2727	2739
15°	2719	2704	2721
20°	2679	2668	2688
25°	2621	2614	2620
30°	2538	2534	2528
35°	2442	2424	2414
40°	2312	2286	2267
45°	2163	2123	2097
50°	1987	1934	1901
55°	1813	1746	1695
60°	1646	1558	1517
65°	1483	1399	1375
70°	1358	1269	1305
75°	1269	1210	1300
80°	1259	1236	1358
85°	1283	1295	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	4.0
10°-20°	547.8	11.4
20°-30°	809.2	16.9
30°-40°	920.0	19.2
40°-50°	859.1	17.9
50°-60°	668.1	13.9
60°-70°	443.3	9.3
70°-80°	256.6	5.4
80°-90°	93.3	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°	1549.6	32.4
0°-40°	2469.6	51.6
0°-60°	3996.9	83.4
0°-90°	4790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2037	2027	2026	2030	2034	193
15°	1952	1942	1941	1941	1953	550
25°	1766	1758	1761	1757	1765	812
35°	1487	1480	1476	1465	1470	928
45°	1136	1128	1116	1101	1102	876
55°	773	761	744	725	722	693
65°	466	452	440	431	432	465
75°	244	238	233	243	250	261
85°	83	82	84	95	96	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2035.7	2035.7	2035.7	2035.7	2035.7
2.5°	2038.7	2032.8	2035.7	2033.5	2040.2
5°	2037.2	2026.8	2026.0	2029.8	2034.3
7.5°	2023.0	2011.8	2014.0	2014.0	2021.5
10°	2005.8	1994.6	1996.1	1996.8	2005.1
12.5°	1982.6	1971.4	1972.1	1971.4	1979.6
15°	1951.9	1942.2	1941.4	1940.7	1953.4
17.5°	1914.5	1901.0	1905.5	1906.2	1913.0
20°	1871.0	1860.6	1863.5	1862.8	1877.0
22.5°	1819.4	1811.9	1814.1	1812.6	1826.1
25°	1765.5	1758.0	1761.0	1757.2	1764.7
27.5°	1704.8	1699.6	1696.6	1694.3	1699.6
30°	1633.7	1630.7	1630.7	1621.0	1627.0
32.5°	1566.3	1556.6	1556.6	1552.8	1549.1
35°	1486.9	1479.5	1475.7	1465.2	1469.7
37.5°	1407.6	1390.4	1388.9	1380.6	1380.6
40°	1316.2	1306.5	1301.3	1292.3	1290.8
42.5°	1229.4	1219.7	1210.7	1195.7	1192.7
45°	1136.5	1127.6	1115.6	1101.4	1102.1
47.5°	1044.5	1031.7	1020.5	1003.3	1001.0
50°	949.4	940.4	923.9	908.9	908.2
52.5°	860.3	846.0	831.1	813.1	813.1
55°	772.7	761.4	744.2	724.8	722.5
57.5°	688.8	678.3	658.9	644.6	640.9
60°	611.7	596.7	578.8	566.8	563.8
62.5°	534.6	521.1	507.6	495.6	494.9
65°	465.7	451.5	439.5	431.3	432.0
67.5°	403.6	391.6	378.1	375.9	376.6
70°	345.2	332.4	322.7	327.9	331.7
72.5°	289.8	283.0	276.3	283.8	289.0
75°	244.1	238.1	232.8	243.3	250.1
77.5°	202.2	197.7	196.9	205.9	211.9
80°	162.5	157.2	159.5	170.0	175.2
82.5°	123.5	119.8	120.5	133.3	137.0
85°	83.1	81.6	83.9	95.1	95.8
87.5°	44.2	44.2	45.7	52.4	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)