

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: P293379

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293379  
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-L92765-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: 4821.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 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

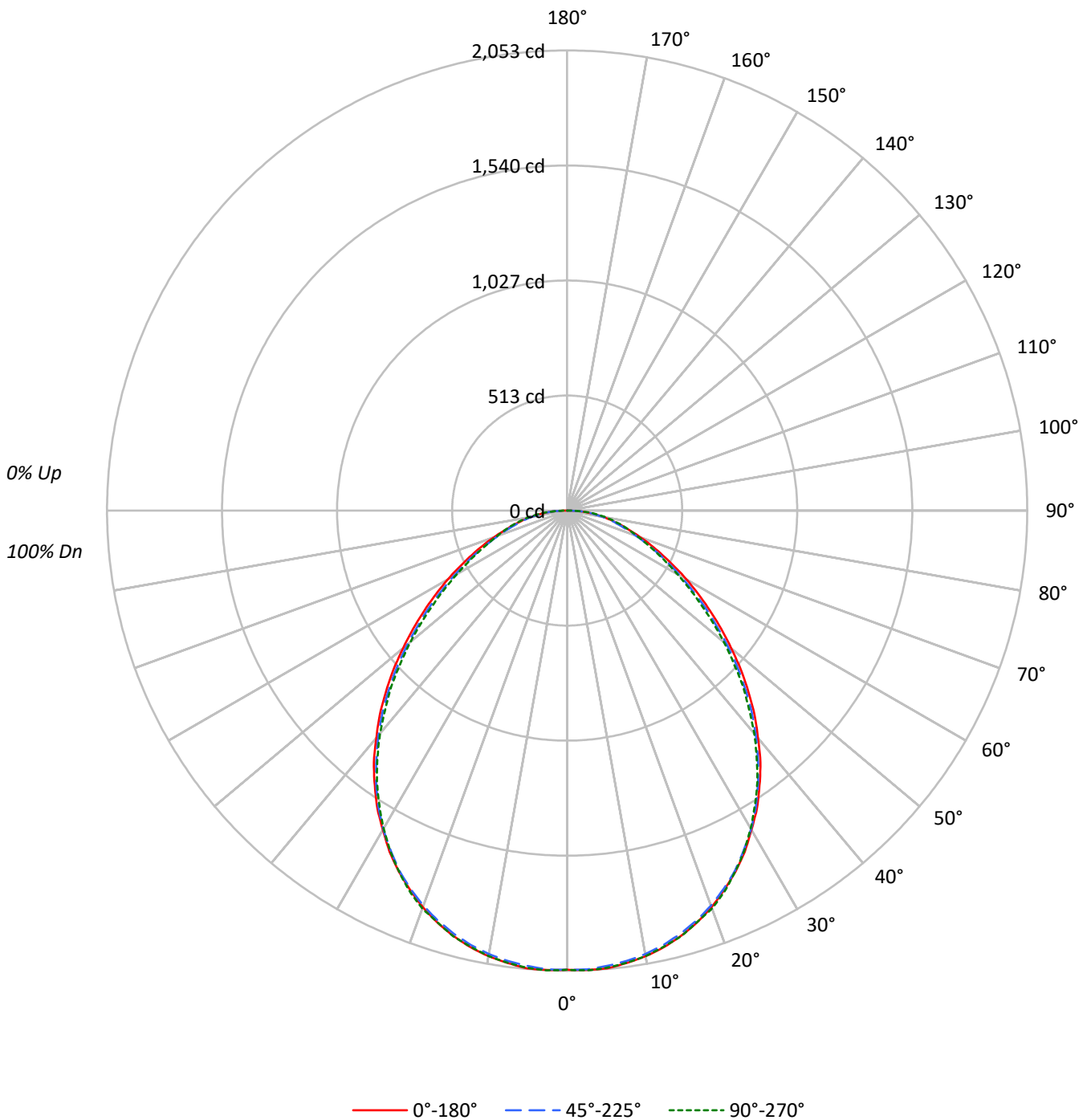
Input Watts (W): 39.06  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293379

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L92765-W2A1-U-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P293379

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L92765-W2A1-U-3500K

**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	73	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°	2757	2757	2757
5°	2769	2754	2765
10°	2758	2745	2757
15°	2736	2722	2739
20°	2696	2686	2705
25°	2638	2631	2637
30°	2555	2550	2544
35°	2458	2440	2430
40°	2327	2300	2282
45°	2177	2136	2111
50°	2000	1946	1913
55°	1824	1757	1706
60°	1657	1567	1527
65°	1492	1408	1384
70°	1367	1278	1313
75°	1277	1219	1308
80°	1267	1244	1366
85°	1291	1303	1490



TEST NUMBER: P293379

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L92765-W2A1-U-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.9	4.0
10°-20°	551.3	11.4
20°-30°	814.4	16.9
30°-40°	925.9	19.2
40°-50°	864.7	17.9
50°-60°	672.4	13.9
60°-70°	446.2	9.3
70°-80°	258.2	5.4
80°-90°	93.9	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°	1559.6	32.4
0°-40°	2485.6	51.6
0°-60°	4022.7	83.4
0°-90°	4821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4821.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2049	2049	2049	2049	2049	
5°	2050	2040	2039	2043	2047	195
15°	1964	1955	1954	1953	1966	553
25°	1777	1769	1772	1769	1776	817
35°	1497	1489	1485	1475	1479	934
45°	1144	1135	1123	1108	1109	881
55°	778	766	749	729	727	697
65°	469	454	442	434	435	468
75°	246	240	234	245	252	263
85°	84	82	84	96	96	91
90°	0	0	0	0	0	



TEST NUMBER: P293379

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L92765-W2A1-U-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2048.9	2048.9	2048.9	2048.9	2048.9
2.5°	2051.9	2045.9	2048.9	2046.7	2053.4
5°	2050.4	2039.9	2039.1	2042.9	2047.4
7.5°	2036.1	2024.8	2027.1	2027.1	2034.6
10°	2018.8	2007.5	2009.0	2009.7	2018.0
12.5°	1995.4	1984.1	1984.9	1984.1	1992.4
15°	1964.5	1954.7	1954.0	1953.2	1966.0
17.5°	1926.8	1913.3	1917.8	1918.6	1925.3
20°	1883.1	1872.6	1875.6	1874.9	1889.2
22.5°	1831.1	1823.6	1825.9	1824.4	1837.9
25°	1776.9	1769.4	1772.4	1768.6	1776.1
27.5°	1715.9	1710.6	1707.6	1705.3	1710.6
30°	1644.3	1641.2	1641.2	1631.5	1637.5
32.5°	1576.4	1566.6	1566.6	1562.9	1559.1
35°	1496.6	1489.0	1485.3	1474.7	1479.2
37.5°	1416.7	1399.4	1397.9	1389.6	1389.6
40°	1324.8	1315.0	1309.7	1300.6	1299.1
42.5°	1237.3	1227.5	1218.5	1203.4	1200.4
45°	1143.9	1134.9	1122.8	1108.5	1109.2
47.5°	1051.2	1038.4	1027.1	1009.8	1007.5
50°	955.5	946.5	929.9	914.8	914.1
52.5°	865.8	851.5	836.4	818.4	818.4
55°	777.7	766.4	749.0	729.4	727.2
57.5°	693.3	682.7	663.1	648.8	645.0
60°	615.7	600.6	582.5	570.4	567.4
62.5°	538.0	524.5	510.9	498.9	498.1
65°	468.7	454.4	442.3	434.0	434.8
67.5°	406.2	394.1	380.5	378.3	379.0
70°	347.4	334.6	324.8	330.1	333.8
72.5°	291.6	284.8	278.1	285.6	290.9
75°	245.7	239.6	234.4	244.9	251.7
77.5°	203.5	198.9	198.2	207.2	213.3
80°	163.5	158.2	160.5	171.1	176.3
82.5°	124.3	120.6	121.3	134.1	137.9
85°	83.6	82.1	84.4	95.7	96.5
87.5°	44.5	44.5	46.0	52.7	50.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)