

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: P293378

Luminaire Tested: **24GR-LD5-56-F125-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293378  
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-3000K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4592.0 lumens  
Efficiency: N/A  
Efficacy: 119.0 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

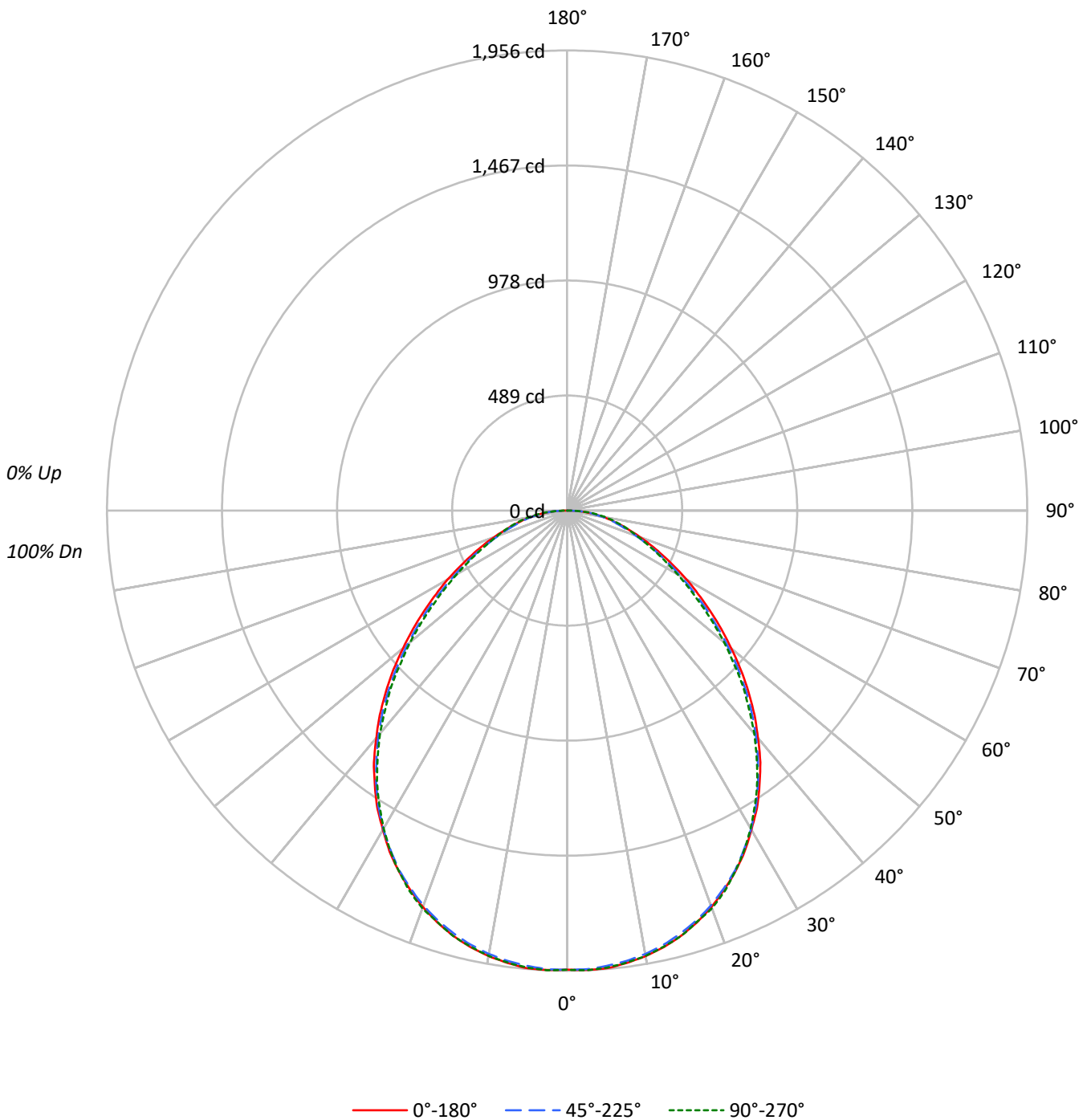
Input Watts (W): 38.595  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2626	2626	2626
5°	2638	2623	2634
10°	2627	2614	2626
15°	2606	2593	2608
20°	2568	2558	2576
25°	2513	2506	2512
30°	2433	2429	2423
35°	2341	2324	2314
40°	2216	2191	2173
45°	2073	2035	2010
50°	1905	1854	1822
55°	1738	1674	1625
60°	1578	1493	1454
65°	1421	1341	1318
70°	1302	1217	1251
75°	1216	1160	1246
80°	1207	1185	1302
85°	1230	1241	1419



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.7	4.0
10°-20°	525.1	11.4
20°-30°	775.7	16.9
30°-40°	882.0	19.2
40°-50°	823.6	17.9
50°-60°	640.5	13.9
60°-70°	425.0	9.3
70°-80°	245.9	5.4
80°-90°	89.4	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°	1485.6	32.4
0°-40°	2367.5	51.6
0°-60°	3831.6	83.4
0°-90°	4592.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4592.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1952	1952	1952	1952	1952	
5°	1953	1943	1942	1946	1950	185
15°	1871	1862	1861	1860	1873	527
25°	1692	1685	1688	1685	1692	778
35°	1426	1418	1415	1405	1409	890
45°	1090	1081	1070	1056	1056	840
55°	741	730	714	695	693	664
65°	446	433	421	413	414	446
75°	234	228	223	233	240	250
85°	80	78	80	91	92	87
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1954.5	1948.7	1951.6	1949.4	1955.9
5°	1953.0	1943.0	1942.3	1945.9	1950.2
7.5°	1939.4	1928.6	1930.8	1930.8	1938.0
10°	1922.9	1912.1	1913.6	1914.3	1922.2
12.5°	1900.6	1889.9	1890.6	1889.9	1897.8
15°	1871.2	1861.9	1861.2	1860.4	1872.6
17.5°	1835.3	1822.4	1826.7	1827.4	1833.9
20°	1793.7	1783.6	1786.5	1785.8	1799.4
22.5°	1744.2	1737.0	1739.1	1737.7	1750.6
25°	1692.5	1685.3	1688.2	1684.6	1691.8
27.5°	1634.3	1629.3	1626.5	1624.3	1629.3
30°	1566.2	1563.3	1563.3	1554.0	1559.7
32.5°	1501.6	1492.2	1492.2	1488.6	1485.1
35°	1425.5	1418.3	1414.7	1404.7	1409.0
37.5°	1349.4	1332.9	1331.5	1323.6	1323.6
40°	1261.8	1252.5	1247.5	1238.9	1237.4
42.5°	1178.6	1169.2	1160.6	1146.3	1143.4
45°	1089.6	1081.0	1069.5	1055.8	1056.5
47.5°	1001.3	989.1	978.3	961.8	959.7
50°	910.1	901.5	885.7	871.4	870.6
52.5°	824.7	811.1	796.7	779.5	779.5
55°	740.7	730.0	713.5	694.8	692.6
57.5°	660.3	650.3	631.6	618.0	614.4
60°	586.4	572.1	554.8	543.3	540.5
62.5°	512.5	499.6	486.6	475.2	474.4
65°	446.4	432.8	421.3	413.4	414.1
67.5°	386.9	375.4	362.5	360.3	361.0
70°	330.9	318.7	309.4	314.4	318.0
72.5°	277.8	271.3	264.9	272.0	277.1
75°	234.0	228.2	223.2	233.3	239.7
77.5°	193.8	189.5	188.8	197.4	203.1
80°	155.8	150.7	152.9	162.9	168.0
82.5°	118.4	114.8	115.6	127.8	131.4
85°	79.7	78.2	80.4	91.2	91.9
87.5°	42.3	42.3	43.8	50.2	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)