

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: P293251

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293251  
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-L82765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5171.0 lumens  
Efficiency: N/A  
Efficacy: 132.7 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

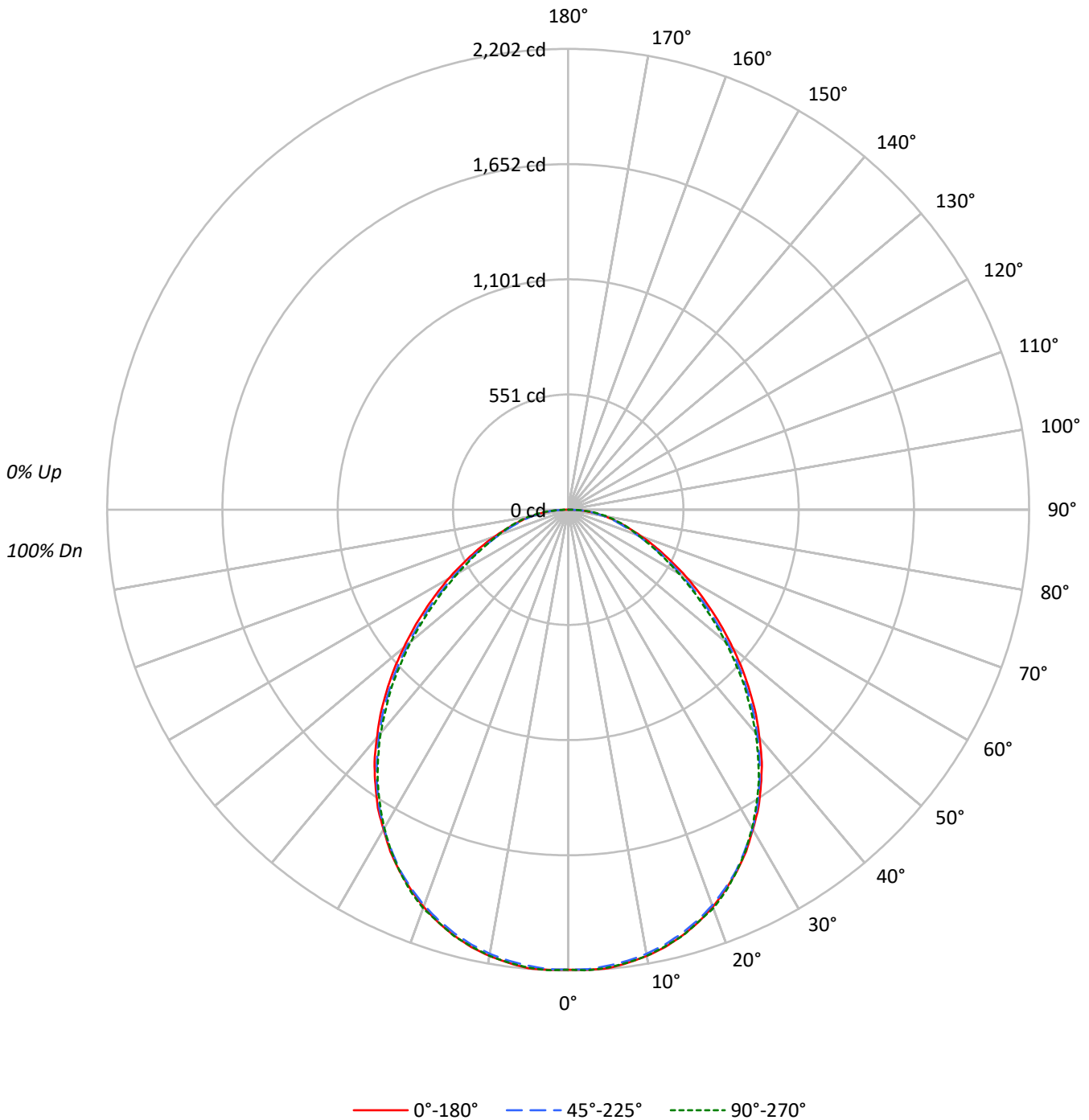
Input Watts (W): 38.967  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2957	2957	2957
5°	2970	2954	2966
10°	2958	2944	2957
15°	2935	2919	2937
20°	2892	2881	2901
25°	2829	2822	2828
30°	2740	2735	2729
35°	2637	2617	2606
40°	2496	2467	2448
45°	2335	2292	2264
50°	2145	2088	2052
55°	1957	1885	1830
60°	1777	1681	1638
65°	1600	1511	1485
70°	1466	1371	1409
75°	1370	1307	1404
80°	1359	1334	1465
85°	1385	1397	1598



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	208.0	4.0
10°-20°	591.3	11.4
20°-30°	873.6	16.9
30°-40°	993.1	19.2
40°-50°	927.5	17.9
50°-60°	721.3	13.9
60°-70°	478.6	9.3
70°-80°	277.0	5.4
80°-90°	100.7	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°	1672.9	32.4
0°-40°	2666.0	51.6
0°-60°	4314.8	83.4
0°-90°	5171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5171.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2198	2198	2198	2198	2198	
5°	2199	2188	2187	2191	2196	209
15°	2107	2097	2096	2095	2109	594
25°	1906	1898	1901	1897	1905	876
35°	1605	1597	1593	1582	1587	1002
45°	1227	1217	1204	1189	1190	945
55°	834	822	803	782	780	748
65°	503	487	474	466	466	502
75°	264	257	251	263	270	282
85°	90	88	90	103	104	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2197.7	2197.7	2197.7	2197.7	2197.7
2.5°	2200.9	2194.4	2197.7	2195.2	2202.5
5°	2199.3	2188.0	2187.2	2191.2	2196.1
7.5°	2183.9	2171.8	2174.2	2174.2	2182.3
10°	2165.3	2153.2	2154.8	2155.6	2164.5
12.5°	2140.3	2128.2	2129.0	2128.2	2137.1
15°	2107.1	2096.6	2095.8	2095.0	2108.8
17.5°	2066.7	2052.2	2057.0	2057.8	2065.1
20°	2019.9	2008.5	2011.8	2011.0	2026.3
22.5°	1964.1	1956.0	1958.4	1956.8	1971.4
25°	1905.9	1897.8	1901.0	1897.0	1905.1
27.5°	1840.4	1834.8	1831.5	1829.1	1834.8
30°	1763.6	1760.4	1760.4	1749.9	1756.4
32.5°	1690.9	1680.4	1680.4	1676.3	1672.3
35°	1605.2	1597.1	1593.1	1581.8	1586.6
37.5°	1519.5	1500.9	1499.3	1490.4	1490.4
40°	1420.9	1410.4	1404.8	1395.1	1393.5
42.5°	1327.2	1316.7	1307.0	1290.8	1287.6
45°	1226.9	1217.2	1204.3	1189.0	1189.8
47.5°	1127.5	1113.8	1101.7	1083.1	1080.7
50°	1024.9	1015.2	997.4	981.2	980.4
52.5°	928.7	913.3	897.2	877.8	877.8
55°	834.1	822.0	803.4	782.4	780.0
57.5°	743.6	732.3	711.3	695.9	691.9
60°	660.4	644.2	624.8	611.9	608.6
62.5°	577.1	562.6	548.0	535.1	534.3
65°	502.7	487.4	474.5	465.6	466.4
67.5°	435.7	422.7	408.2	405.7	406.6
70°	372.6	358.9	348.4	354.0	358.1
72.5°	312.8	305.5	298.3	306.3	312.0
75°	263.5	257.0	251.4	262.7	270.0
77.5°	218.2	213.4	212.6	222.3	228.7
80°	175.4	169.7	172.2	183.5	189.1
82.5°	133.4	129.3	130.1	143.9	147.9
85°	89.7	88.1	90.5	102.6	103.5
87.5°	47.7	47.7	49.3	56.6	54.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)