

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: P475601

Luminaire Tested: **24GR-LD5-56-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475601  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-F125-UNV-L835-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5693.8 lumens  
Efficiency: N/A  
Efficacy: 144.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

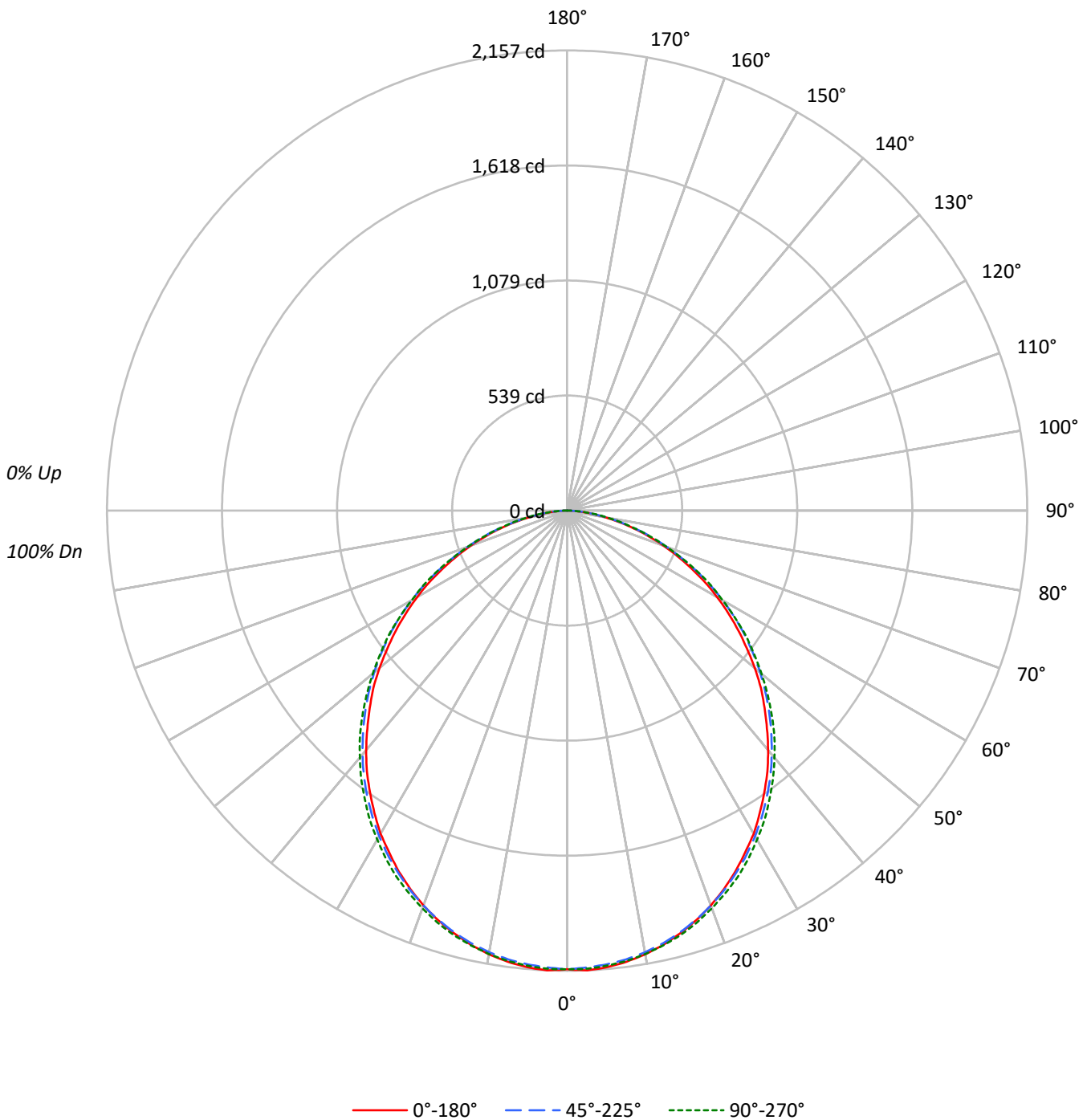
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51					51			
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2893	2893	2893
5°	2902	2884	2892
10°	2885	2872	2884
15°	2857	2851	2868
20°	2820	2821	2840
25°	2771	2782	2811
30°	2717	2738	2766
35°	2647	2683	2714
40°	2574	2621	2656
45°	2489	2550	2583
50°	2403	2473	2490
55°	2299	2381	2399
60°	2189	2263	2266
65°	2045	2124	2135
70°	1895	1948	1941
75°	1683	1744	1748
80°	1408	1458	1513
85°	1056	1136	1176



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	203.2	3.6
10°-20°	578.0	10.2
20°-30°	864.1	15.2
30°-40°	1020.9	17.9
40°-50°	1030.5	18.1
50°-60°	899.4	15.8
60°-70°	655.7	11.5
70°-80°	353.6	6.2
80°-90°	88.5	1.6
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°	1645.3	28.9
0°-40°	2666.1	46.8
0°-60°	4596.1	80.7
0°-90°	5693.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5693.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2150	2150	2150	2150	2150	
5°	2149	2141	2135	2137	2141	204
15°	2051	2047	2046	2051	2059	578
25°	1867	1867	1874	1886	1894	859
35°	1612	1616	1634	1649	1653	1008
45°	1308	1318	1340	1357	1357	1010
55°	980	992	1015	1019	1022	876
65°	642	656	667	668	671	638
75°	324	327	335	337	336	344
85°	68	70	74	77	76	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2150.3	2150.3	2150.3	2150.3	2150.3
2.5°	2157.4	2149.7	2143.5	2144.8	2150.0
5°	2148.7	2140.9	2135.1	2137.1	2141.3
7.5°	2133.2	2126.1	2121.6	2123.5	2129.0
10°	2111.9	2106.1	2101.9	2104.8	2110.6
12.5°	2084.8	2079.0	2077.4	2081.5	2086.7
15°	2050.9	2046.7	2046.4	2051.2	2059.0
17.5°	2012.8	2008.6	2010.9	2017.3	2024.1
20°	1969.5	1965.7	1970.2	1978.9	1983.4
22.5°	1920.2	1916.9	1925.0	1934.0	1939.9
25°	1866.6	1866.9	1874.0	1885.9	1893.7
27.5°	1807.2	1809.5	1820.1	1831.7	1839.5
30°	1748.8	1746.8	1762.0	1774.6	1780.4
32.5°	1681.0	1682.0	1699.7	1712.6	1721.3
35°	1611.6	1616.1	1633.5	1649.4	1652.6
37.5°	1541.6	1544.8	1565.8	1581.3	1585.5
40°	1465.7	1471.5	1492.2	1506.7	1511.9
42.5°	1386.6	1394.0	1416.3	1431.5	1438.3
45°	1308.2	1317.6	1340.1	1356.9	1357.3
47.5°	1232.3	1239.1	1261.1	1275.9	1274.3
50°	1147.8	1157.8	1181.3	1190.4	1189.4
52.5°	1061.3	1076.4	1098.1	1105.2	1104.2
55°	979.9	991.9	1015.1	1019.0	1022.5
57.5°	895.7	906.0	931.2	932.8	932.2
60°	813.4	822.7	841.1	845.7	842.1
62.5°	730.4	739.8	756.3	760.8	760.1
65°	642.3	656.2	667.2	668.5	670.7
67.5°	560.3	569.0	579.7	581.6	580.0
70°	481.6	489.0	495.1	496.4	493.5
72.5°	400.2	407.0	415.7	417.3	414.1
75°	323.7	327.0	335.4	336.6	336.3
77.5°	249.5	252.1	258.2	263.1	263.7
80°	181.7	182.7	188.2	191.7	195.3
82.5°	120.4	123.0	127.2	130.7	133.9
85°	68.4	70.0	73.6	77.1	76.2
87.5°	26.5	30.0	30.3	33.9	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)