

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: P475602

Luminaire Tested: **24GR-LD5-64-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475602  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-64-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: 6337.8 lumens  
Efficiency: N/A  
Efficacy: 146.0 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

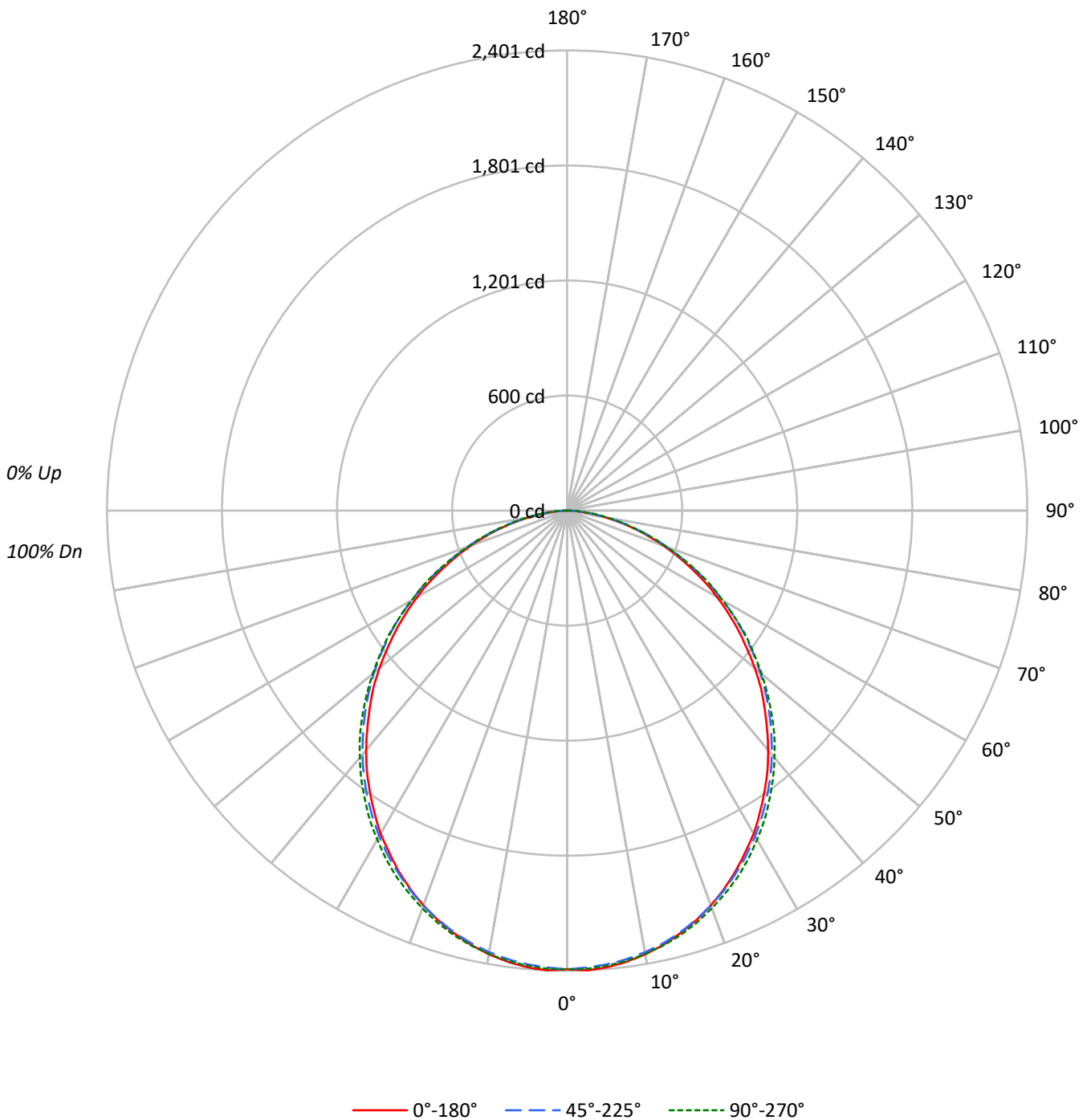
Input Watts (W): 43.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P475602

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P475602

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L835-CD1-U

**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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3220	3220	3220
5°	3230	3210	3219
10°	3212	3196	3210
15°	3180	3173	3192
20°	3139	3140	3161
25°	3085	3097	3129
30°	3024	3047	3079
35°	2947	2987	3021
40°	2866	2917	2956
45°	2771	2838	2875
50°	2674	2753	2771
55°	2559	2651	2670
60°	2436	2520	2523
65°	2276	2364	2377
70°	2109	2168	2161
75°	1874	1941	1946
80°	1567	1623	1684
85°	1176	1264	1309



TEST NUMBER: P475602

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	3.6
10°-20°	643.4	10.2
20°-30°	961.8	15.2
30°-40°	1136.3	17.9
40°-50°	1147.1	18.1
50°-60°	1001.1	15.8
60°-70°	729.8	11.5
70°-80°	393.6	6.2
80°-90°	98.5	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°	1831.4	28.9
0°-40°	2967.7	46.8
0°-60°	5115.9	80.7
0°-90°	6337.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6337.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2394	2394	2394	2394	2394	
5°	2392	2383	2377	2379	2383	227
15°	2283	2278	2278	2283	2292	644
25°	2078	2078	2086	2099	2108	957
35°	1794	1799	1818	1836	1840	1122
45°	1456	1467	1492	1510	1511	1124
55°	1091	1104	1130	1134	1138	975
65°	715	730	743	744	747	710
75°	360	364	373	375	374	383
85°	76	78	82	86	85	93
90°	0	0	0	0	0	



TEST NUMBER: P475602

CATALOG NUMBER: 24GR-LD5-64-F125-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2393.5	2393.5	2393.5	2393.5	2393.5
2.5°	2401.4	2392.8	2386.0	2387.4	2393.1
5°	2391.7	2383.1	2376.6	2378.8	2383.4
7.5°	2374.5	2366.6	2361.5	2363.7	2369.8
10°	2350.7	2344.3	2339.6	2342.8	2349.3
12.5°	2320.6	2314.1	2312.3	2317.0	2322.7
15°	2282.8	2278.2	2277.8	2283.2	2291.8
17.5°	2240.4	2235.8	2238.3	2245.5	2253.0
20°	2192.3	2188.0	2193.0	2202.7	2207.8
22.5°	2137.3	2133.7	2142.7	2152.8	2159.3
25°	2077.7	2078.1	2086.0	2099.3	2107.9
27.5°	2011.6	2014.1	2026.0	2038.9	2047.5
30°	1946.6	1944.4	1961.3	1975.3	1981.8
32.5°	1871.1	1872.2	1892.0	1906.3	1916.0
35°	1793.9	1798.9	1818.3	1835.9	1839.5
37.5°	1715.9	1719.5	1742.9	1760.1	1764.8
40°	1631.5	1637.9	1660.9	1677.1	1682.9
42.5°	1543.5	1551.7	1576.5	1593.4	1600.9
45°	1456.1	1466.6	1491.7	1510.4	1510.8
47.5°	1371.7	1379.3	1403.7	1420.2	1418.4
50°	1277.6	1288.7	1315.0	1325.0	1323.9
52.5°	1181.3	1198.2	1222.3	1230.2	1229.1
55°	1090.8	1104.1	1129.9	1134.2	1138.2
57.5°	997.0	1008.5	1036.5	1038.3	1037.6
60°	905.4	915.8	936.3	941.3	937.4
62.5°	813.0	823.5	841.8	846.8	846.1
65°	715.0	730.4	742.6	744.1	746.6
67.5°	623.7	633.4	645.3	647.4	645.6
70°	536.0	544.3	551.1	552.6	549.3
72.5°	445.5	453.0	462.7	464.5	461.0
75°	360.4	363.9	373.3	374.7	374.4
77.5°	277.7	280.6	287.4	292.8	293.5
80°	202.3	203.4	209.5	213.4	217.4
82.5°	134.0	136.9	141.6	145.5	149.1
85°	76.2	78.0	81.9	85.9	84.8
87.5°	29.5	33.4	33.8	37.7	39.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)