

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: P475586

Luminaire Tested: **24GR-LD5-56-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475586
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-L830-CD1-U
Description: GR 2'X4' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5494.5 lumens
Efficiency: N/A
Efficacy: 139.5 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

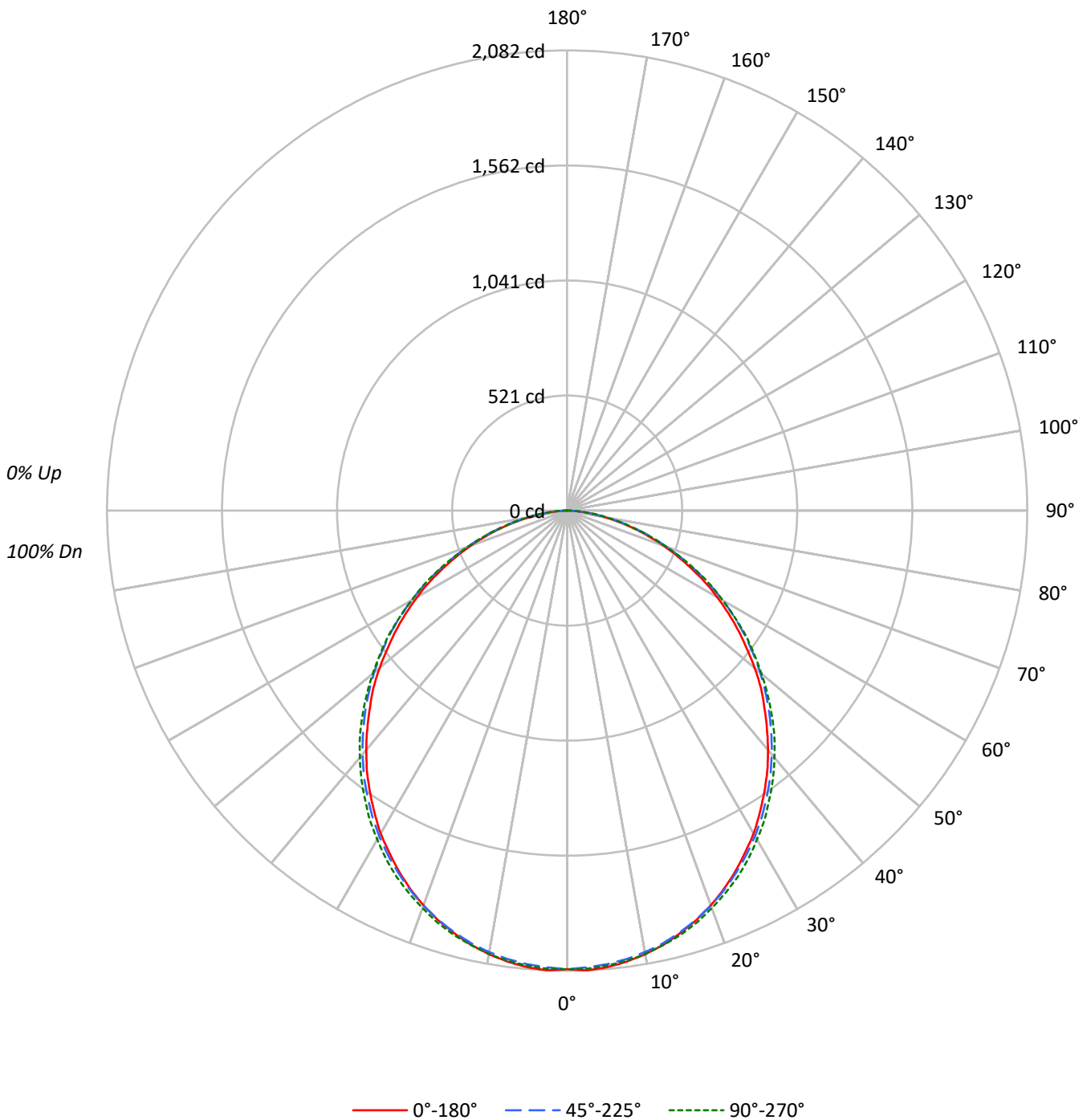
Input Watts (W): 39.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475586

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475586

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L830-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°	2792	2792	2792
5°	2801	2783	2791
10°	2784	2771	2783
15°	2757	2751	2768
20°	2721	2722	2741
25°	2674	2685	2713
30°	2622	2642	2669
35°	2554	2589	2619
40°	2484	2529	2562
45°	2402	2461	2492
50°	2318	2386	2403
55°	2218	2298	2315
60°	2112	2184	2187
65°	1973	2050	2060
70°	1828	1880	1873
75°	1624	1682	1687
80°	1359	1407	1460
85°	1019	1096	1135



TEST NUMBER: P475586

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	3.6
10°-20°	557.8	10.2
20°-30°	833.8	15.2
30°-40°	985.1	17.9
40°-50°	994.5	18.1
50°-60°	867.9	15.8
60°-70°	632.7	11.5
70°-80°	341.2	6.2
80°-90°	85.4	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°	1587.7	28.9
0°-40°	2572.8	46.8
0°-60°	4435.2	80.7
0°-90°	5494.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5494.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2075	2075	2075	2075	2075	
5°	2074	2066	2060	2062	2066	197
15°	1979	1975	1975	1979	1987	558
25°	1801	1802	1808	1820	1827	829
35°	1555	1560	1576	1592	1595	973
45°	1262	1271	1293	1309	1310	975
55°	946	957	980	983	987	845
65°	620	633	644	645	647	616
75°	312	316	324	325	325	332
85°	66	68	71	74	74	80
90°	0	0	0	0	0	



TEST NUMBER: P475586

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2075.0	2075.0	2075.0	2075.0	2075.0
2.5°	2081.9	2074.4	2068.5	2069.7	2074.7
5°	2073.5	2066.0	2060.4	2062.3	2066.3
7.5°	2058.5	2051.7	2047.3	2049.2	2054.5
10°	2038.0	2032.4	2028.3	2031.1	2036.7
12.5°	2011.8	2006.2	2004.6	2008.7	2013.7
15°	1979.1	1975.1	1974.7	1979.4	1986.9
17.5°	1942.4	1938.3	1940.5	1946.7	1953.3
20°	1900.6	1896.9	1901.2	1909.6	1914.0
22.5°	1853.0	1849.8	1857.6	1866.4	1872.0
25°	1801.3	1801.6	1808.4	1819.9	1827.4
27.5°	1743.9	1746.1	1756.4	1767.6	1775.1
30°	1687.6	1685.7	1700.3	1712.5	1718.1
32.5°	1622.2	1623.1	1640.2	1652.7	1661.1
35°	1555.2	1559.5	1576.4	1591.6	1594.7
37.5°	1487.6	1490.7	1511.0	1525.9	1530.0
40°	1414.4	1420.0	1439.9	1454.0	1458.9
42.5°	1338.1	1345.3	1366.7	1381.4	1387.9
45°	1262.4	1271.4	1293.2	1309.4	1309.7
47.5°	1189.2	1195.7	1216.9	1231.3	1229.7
50°	1107.6	1117.3	1140.0	1148.7	1147.8
52.5°	1024.1	1038.8	1059.6	1066.5	1065.6
55°	945.6	957.2	979.6	983.3	986.7
57.5°	864.3	874.3	898.6	900.2	899.5
60°	784.9	793.9	811.7	816.1	812.6
62.5°	704.9	713.9	729.8	734.1	733.5
65°	619.8	633.2	643.8	645.1	647.2
67.5°	540.7	549.1	559.4	561.3	559.7
70°	464.7	471.9	477.8	479.0	476.2
72.5°	386.2	392.8	401.2	402.7	399.6
75°	312.4	315.5	323.6	324.9	324.6
77.5°	240.8	243.3	249.2	253.9	254.5
80°	175.4	176.3	181.6	185.0	188.4
82.5°	116.2	118.7	122.7	126.1	129.3
85°	66.0	67.6	71.0	74.4	73.5
87.5°	25.5	29.0	29.3	32.7	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)