

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: P475947

Luminaire Tested: **22GR-LD5-43-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475947
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4356.9 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

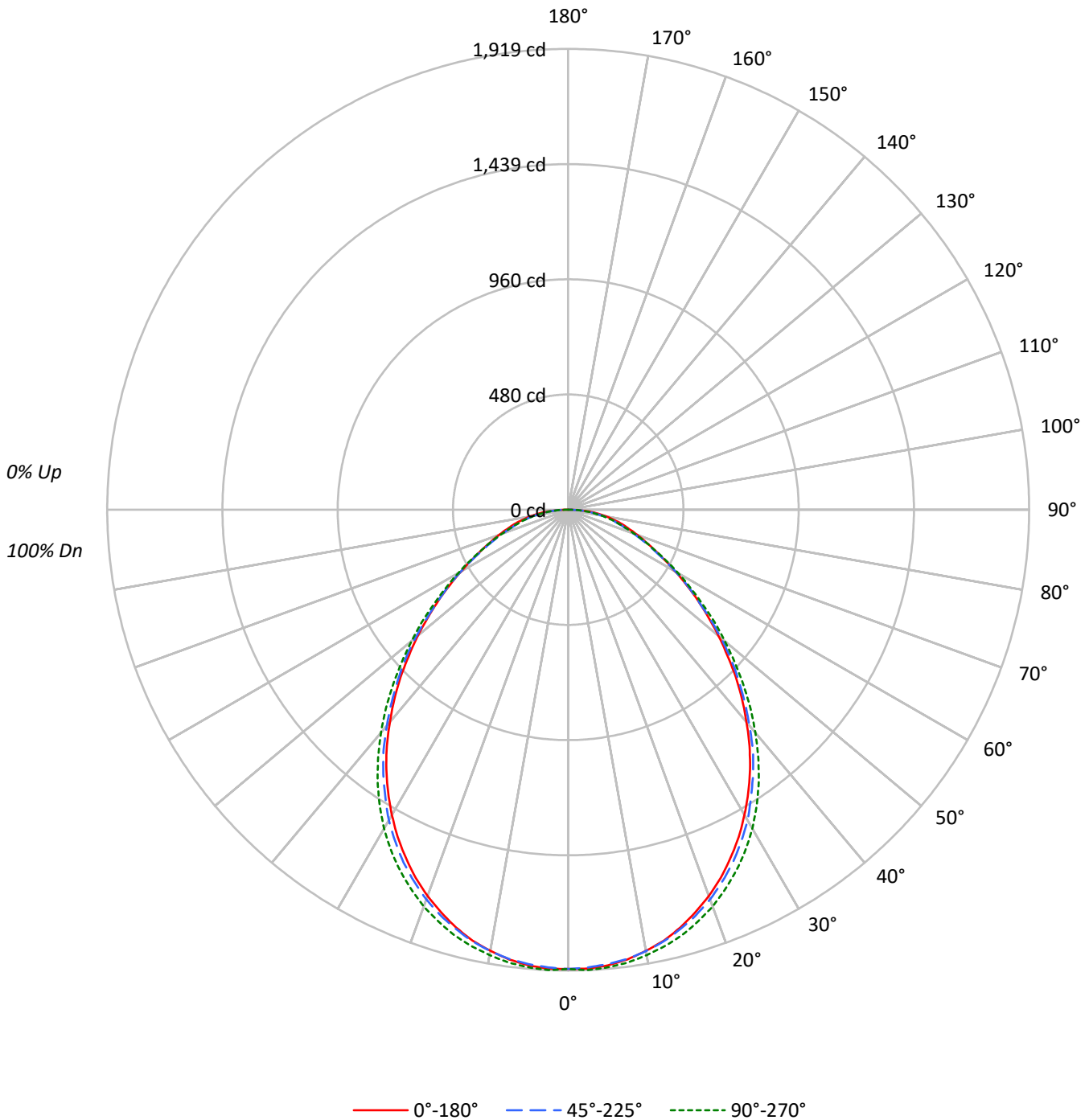
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475947

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475947

CATALOG NUMBER: 22GR-LD5-43-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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5147	5147	5147
5°	5145	5131	5166
10°	5097	5100	5147
15°	5019	5036	5109
20°	4901	4945	5034
25°	4749	4815	4920
30°	4561	4640	4762
35°	4337	4407	4544
40°	4056	4123	4258
45°	3755	3813	3924
50°	3419	3474	3564
55°	3088	3097	3187
60°	2770	2780	2846
65°	2524	2471	2529
70°	2401	2267	2306
75°	2416	2185	2197
80°	2507	2210	2193
85°	2751	2337	2214



TEST NUMBER: P475947

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.7	4.1
10°-20°	510.5	11.7
20°-30°	747.2	17.1
30°-40°	840.0	19.3
40°-50°	774.7	17.8
50°-60°	597.1	13.7
60°-70°	394.0	9.0
70°-80°	229.3	5.3
80°-90°	83.5	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°	1438.3	33.0
0°-40°	2278.4	52.3
0°-60°	3650.2	83.8
0°-90°	4356.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1905	1901	1900	1909	1913	181
15°	1802	1802	1808	1824	1834	507
25°	1599	1608	1622	1644	1657	736
35°	1320	1326	1342	1369	1383	823
45°	987	988	1002	1022	1031	760
55°	658	657	660	671	679	591
65°	396	394	388	391	397	397
75°	232	222	210	206	211	245
85°	89	88	76	70	72	94
90°	0	0	0	0	0	



TEST NUMBER: P475947

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.6	1912.6	1912.6	1912.6	1912.6
2.5°	1912.6	1908.6	1907.6	1914.8	1918.8
5°	1904.6	1900.6	1899.5	1908.6	1912.6
7.5°	1888.6	1885.4	1886.4	1896.6	1901.7
10°	1865.3	1864.2	1866.4	1877.3	1883.5
12.5°	1838.0	1836.9	1841.0	1853.0	1861.3
15°	1801.6	1801.6	1807.5	1823.8	1834.0
17.5°	1758.0	1761.0	1770.1	1786.4	1797.4
20°	1711.5	1714.7	1726.8	1744.9	1758.0
22.5°	1659.9	1664.2	1676.2	1698.4	1709.6
25°	1599.4	1607.5	1621.6	1643.8	1656.9
27.5°	1536.6	1545.7	1558.8	1586.3	1598.4
30°	1467.8	1474.0	1493.3	1518.4	1532.6
32.5°	1395.1	1401.2	1417.3	1447.8	1459.8
35°	1320.2	1326.4	1341.6	1368.9	1383.1
37.5°	1239.4	1244.5	1262.7	1283.8	1299.1
40°	1154.6	1161.6	1173.6	1199.0	1212.2
42.5°	1071.7	1074.7	1087.8	1113.2	1123.1
45°	986.7	987.7	1001.9	1022.0	1031.1
47.5°	898.7	900.8	917.9	930.0	939.1
50°	816.8	817.9	829.9	841.2	851.3
52.5°	735.0	735.0	741.1	753.2	766.3
55°	658.2	657.2	660.1	671.3	679.4
57.5°	585.5	584.4	588.4	595.4	601.5
60°	514.6	512.5	516.5	520.8	528.8
62.5°	452.0	453.9	448.8	455.0	461.1
65°	396.4	394.2	388.1	391.3	397.2
67.5°	348.8	345.8	335.7	337.5	344.8
70°	305.2	299.3	288.1	288.1	293.1
72.5°	265.9	259.7	245.5	246.6	248.7
75°	232.4	222.5	210.2	206.2	211.3
77.5°	196.1	188.0	176.8	173.9	176.0
80°	161.8	155.7	142.6	138.5	141.5
82.5°	128.4	123.3	108.1	105.1	106.2
85°	89.1	88.0	75.7	69.8	71.7
87.5°	47.6	48.4	39.3	35.3	37.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)