

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: P475936

Luminaire Tested: **22GR-LD5-50-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475936
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-F125-UNV-L830-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4881.9 lumens
Efficiency: N/A
Efficacy: 132.3 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

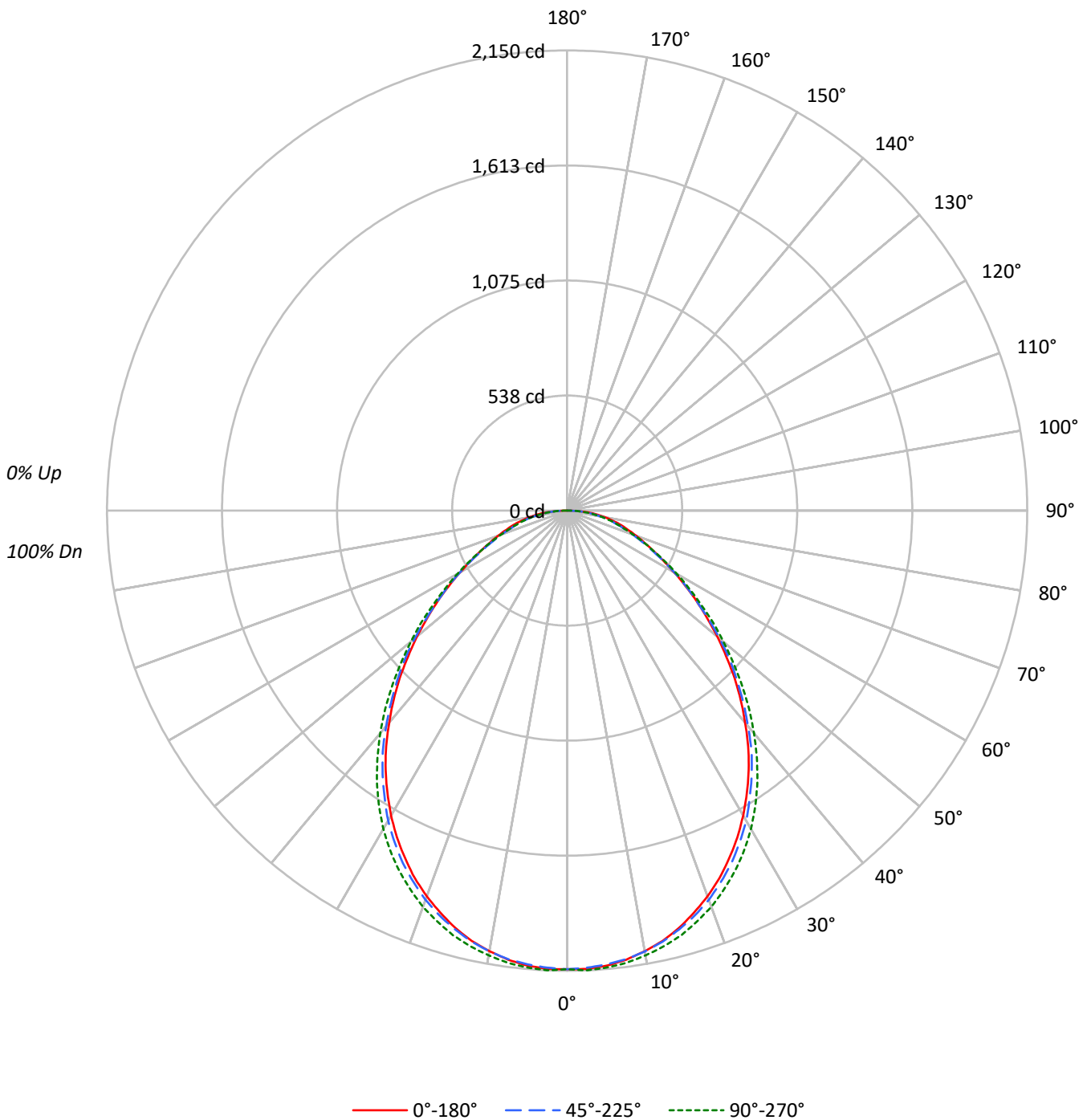
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P475936

CATALOG NUMBER: 22GR-LD5-50-F125-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P475936

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5767	5767	5767
5°	5765	5749	5789
10°	5711	5714	5767
15°	5624	5642	5725
20°	5492	5541	5641
25°	5321	5395	5513
30°	5111	5199	5336
35°	4860	4938	5091
40°	4545	4619	4771
45°	4207	4272	4397
50°	3832	3893	3993
55°	3460	3470	3571
60°	3103	3115	3189
65°	2828	2769	2833
70°	2690	2540	2585
75°	2707	2450	2462
80°	2810	2475	2456
85°	3081	2618	2479



TEST NUMBER: P475936

CATALOG NUMBER: 22GR-LD5-50-F125-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.5	4.1
10°-20°	572.0	11.7
20°-30°	837.2	17.1
30°-40°	941.3	19.3
40°-50°	868.0	17.8
50°-60°	669.0	13.7
60°-70°	441.4	9.0
70°-80°	256.9	5.3
80°-90°	93.6	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°	1611.6	33.0
0°-40°	2552.9	52.3
0°-60°	4089.9	83.8
0°-90°	4881.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4881.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2143	2143	2143	2143	2143	
5°	2134	2130	2128	2139	2143	202
15°	2019	2019	2025	2044	2055	568
25°	1792	1801	1817	1842	1857	824
35°	1479	1486	1503	1534	1550	922
45°	1106	1107	1123	1145	1155	851
55°	738	736	740	752	761	662
65°	444	442	435	438	445	445
75°	260	249	236	231	237	274
85°	100	99	85	78	80	106
90°	0	0	0	0	0	



TEST NUMBER: P475936

CATALOG NUMBER: 22GR-LD5-50-F125-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2143.1	2143.1	2143.1	2143.1	2143.1
2.5°	2143.1	2138.6	2137.4	2145.5	2150.0
5°	2134.1	2129.6	2128.4	2138.6	2143.1
7.5°	2116.1	2112.5	2113.7	2125.1	2130.8
10°	2090.0	2088.8	2091.2	2103.5	2110.4
12.5°	2059.5	2058.3	2062.8	2076.2	2085.5
15°	2018.7	2018.7	2025.3	2043.6	2055.0
17.5°	1969.9	1973.2	1983.3	2001.6	2013.9
20°	1917.7	1921.3	1934.8	1955.2	1969.9
22.5°	1859.9	1864.7	1878.2	1903.0	1915.6
25°	1792.1	1801.1	1817.0	1841.9	1856.6
27.5°	1721.7	1731.9	1746.6	1777.5	1790.9
30°	1644.7	1651.6	1673.2	1701.3	1717.2
32.5°	1563.2	1570.1	1588.1	1622.2	1635.7
35°	1479.3	1486.2	1503.2	1533.8	1549.7
37.5°	1388.8	1394.5	1414.8	1438.5	1455.6
40°	1293.8	1301.5	1315.0	1343.5	1358.2
42.5°	1200.9	1204.2	1218.8	1247.3	1258.4
45°	1105.6	1106.8	1122.6	1145.1	1155.3
47.5°	1007.0	1009.4	1028.5	1042.0	1052.2
50°	915.3	916.4	929.9	942.5	953.9
52.5°	823.5	823.5	830.4	843.9	858.6
55°	737.5	736.3	739.6	752.2	761.2
57.5°	656.0	654.8	659.3	667.1	674.0
60°	576.6	574.2	578.7	583.5	592.5
62.5°	506.5	508.6	502.9	509.8	516.7
65°	444.1	441.7	434.8	438.4	445.0
67.5°	390.8	387.5	376.1	378.2	386.3
70°	341.9	335.4	322.8	322.8	328.5
72.5°	297.9	291.0	275.1	276.3	278.7
75°	260.4	249.3	235.6	231.1	236.8
77.5°	219.7	210.7	198.1	194.8	197.2
80°	181.3	174.4	159.7	155.2	158.5
82.5°	143.9	138.2	121.1	117.8	119.0
85°	99.8	98.6	84.8	78.2	80.3
87.5°	53.3	54.2	44.1	39.6	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)