

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: P476044

Luminaire Tested: **22GR-LD5-50-A-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476044
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-50-A-UNV-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ A LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4907.2 lumens
Efficiency: N/A
Efficacy: 133.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

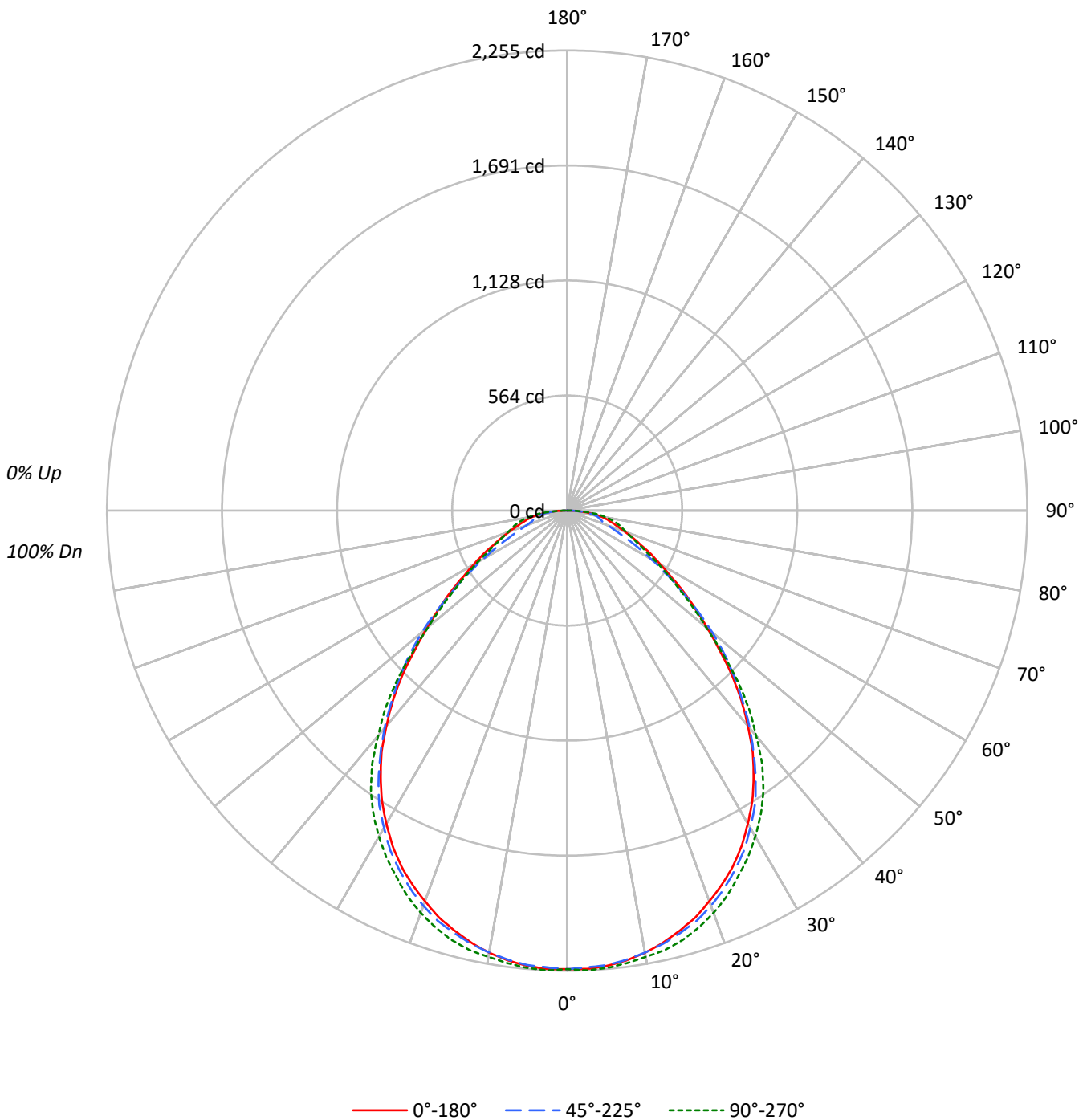
Input Watts (W): 36.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P476044

CATALOG NUMBER: 22GR-LD5-50-A-UNV-L835-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P476044

CATALOG NUMBER: 22GR-LD5-50-A-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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6047	6047	6047
5°	6049	6040	6077
10°	6013	6010	6069
15°	5936	5969	6073
20°	5834	5902	6007
25°	5710	5774	5879
30°	5503	5578	5730
35°	5233	5293	5507
40°	4838	4890	5062
45°	4346	4424	4494
50°	3757	3891	3719
55°	3279	3193	3150
60°	2840	2556	2729
65°	2538	2007	2451
70°	2353	1662	2418
75°	2350	1756	2684
80°	2603	2210	3025
85°	2714	2399	3424



TEST NUMBER: P476044

CATALOG NUMBER: 22GR-LD5-50-A-UNV-L835-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.7	4.3
10°-20°	605.7	12.3
20°-30°	895.8	18.3
30°-40°	1010.9	20.6
40°-50°	891.1	18.2
50°-60°	611.3	12.5
60°-70°	360.7	7.4
70°-80°	225.1	4.6
80°-90°	93.8	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°	1714.2	34.9
0°-40°	2725.1	55.5
0°-60°	4227.5	86.1
0°-90°	4907.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4907.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2247	2247	2247	2247	2247	
5°	2239	2235	2236	2244	2250	213
15°	2131	2133	2142	2169	2180	601
25°	1923	1930	1945	1970	1980	883
35°	1593	1607	1611	1650	1676	993
45°	1142	1148	1162	1169	1181	877
55°	699	682	680	658	671	627
65°	399	350	315	364	385	402
75°	226	203	169	236	258	243
85°	88	82	78	102	111	95
90°	0	0	0	0	0	



TEST NUMBER: P476044

CATALOG NUMBER: 22GR-LD5-50-A-UNV-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2247.2	2247.2	2247.2	2247.2	2247.2
2.5°	2248.4	2242.7	2240.6	2249.7	2255.4
5°	2239.4	2234.8	2236.1	2243.9	2249.7
7.5°	2223.4	2220.0	2220.0	2231.2	2237.0
10°	2200.4	2199.5	2199.5	2213.1	2220.9
12.5°	2168.7	2169.6	2174.1	2192.5	2206.1
15°	2130.9	2133.0	2142.4	2168.7	2179.8
17.5°	2089.8	2089.8	2107.9	2128.5	2142.4
20°	2037.2	2040.5	2061.1	2084.1	2097.7
22.5°	1983.4	1989.2	2006.4	2032.7	2045.1
25°	1923.0	1930.0	1944.8	1969.8	1980.1
27.5°	1852.3	1861.4	1877.4	1895.5	1917.3
30°	1771.0	1784.9	1795.2	1820.3	1844.1
32.5°	1688.8	1701.5	1713.0	1739.3	1766.5
35°	1593.0	1606.6	1611.2	1650.1	1676.4
37.5°	1494.8	1500.6	1502.7	1541.7	1570.1
40°	1377.3	1388.5	1392.1	1422.9	1441.0
42.5°	1264.0	1268.8	1275.5	1298.4	1320.2
45°	1141.9	1147.6	1162.4	1169.4	1180.9
47.5°	1014.1	1031.3	1048.2	1026.5	1027.7
50°	897.4	911.3	929.5	888.4	888.4
52.5°	793.5	800.4	801.7	767.5	774.2
55°	698.9	681.7	680.5	657.8	671.4
57.5°	604.0	581.4	573.2	566.3	582.3
60°	527.6	486.5	475.0	485.3	507.0
62.5°	464.7	412.2	390.4	416.7	436.3
65°	398.6	350.5	315.2	364.4	385.0
67.5°	347.2	301.6	255.9	325.4	340.2
70°	299.1	263.8	211.2	295.8	307.3
72.5°	260.5	233.0	182.8	267.1	281.0
75°	226.0	203.4	168.9	236.3	258.1
77.5°	198.8	173.4	157.7	204.3	230.6
80°	168.0	142.6	142.6	171.3	195.2
82.5°	132.4	111.8	115.4	139.3	156.5
85°	87.9	82.2	77.7	101.5	110.9
87.5°	44.4	45.6	41.1	52.6	53.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)