

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: P476091

Luminaire Tested: **22GR-LD5-43-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476091  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-43-A125-UNV-L835-CD1-U  
Description: GR 2'X2' LED TROFFER w/ A125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4374.4 lumens  
Efficiency: N/A  
Efficacy: 125.7 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

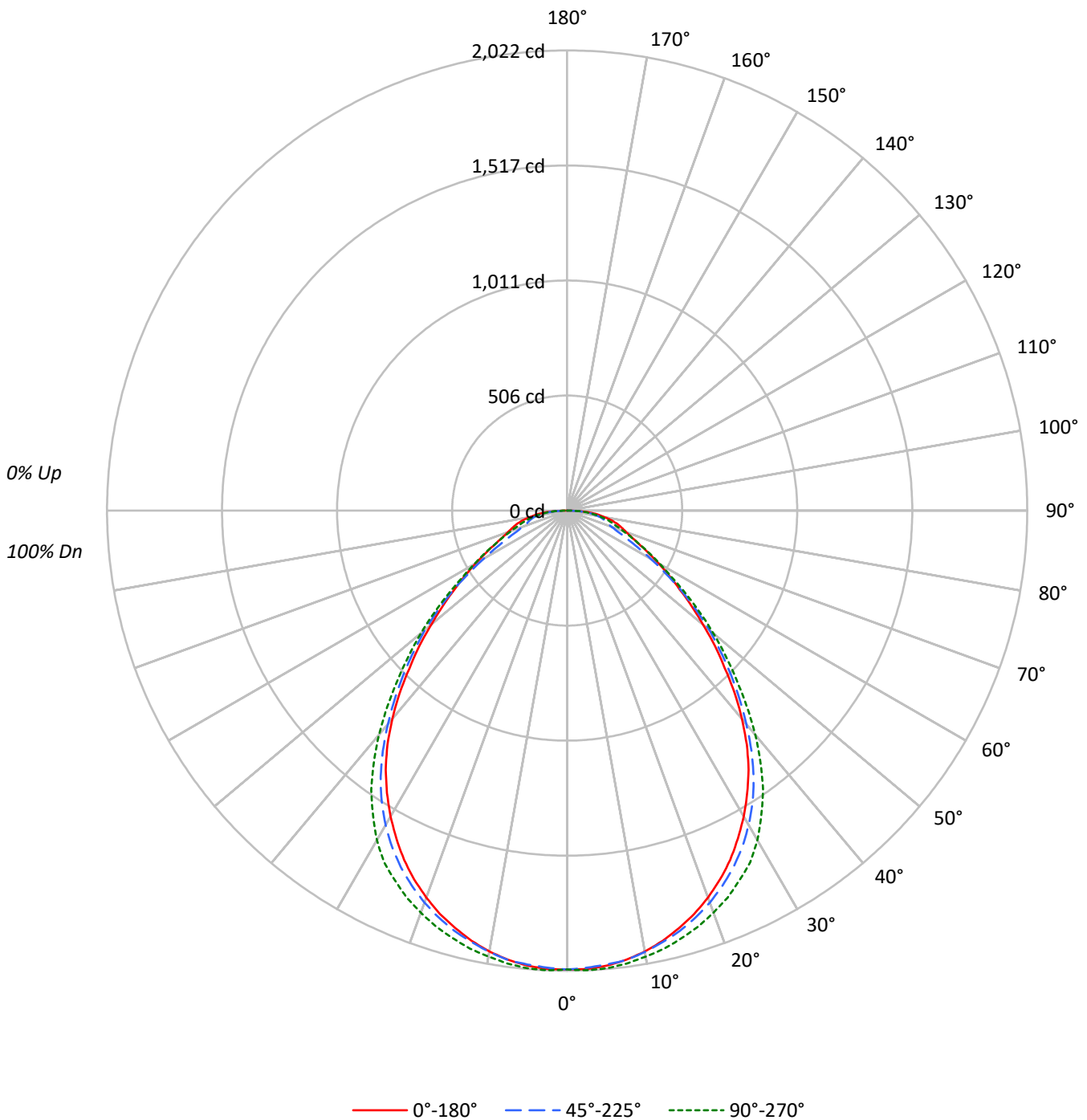
Input Watts (W): 34.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P476091

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P476091

CATALOG NUMBER: 22GR-LD5-43-A125-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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	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	52	46	41	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	34	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	29

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

	0°	45°	90°
0°	5426	5426	5426
5°	5422	5408	5453
10°	5376	5381	5437
15°	5290	5328	5418
20°	5182	5249	5383
25°	5030	5133	5321
30°	4821	4956	5195
35°	4566	4694	4932
40°	4200	4303	4518
45°	3730	3866	4005
50°	3258	3407	3510
55°	2832	2871	2976
60°	2492	2283	2542
65°	2215	1825	2227
70°	2174	1620	2055
75°	2377	1782	2099
80°	2610	2115	2245
85°	3115	2458	2516



TEST NUMBER: P476091

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.6	4.4
10°-20°	540.4	12.4
20°-30°	797.8	18.2
30°-40°	892.7	20.4
40°-50°	784.0	17.9
50°-60°	554.7	12.7
60°-70°	322.9	7.4
70°-80°	201.2	4.6
80°-90°	90.0	2.1
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°	1528.8	34.9
0°-40°	2421.6	55.4
0°-60°	3760.3	86.0
0°-90°	4374.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2016	2016	2016	2016	2016	
5°	2007	2002	2002	2012	2019	190
15°	1899	1903	1912	1933	1945	535
25°	1694	1701	1729	1770	1792	778
35°	1390	1396	1429	1472	1501	865
45°	980	992	1016	1040	1052	758
55°	604	616	612	623	634	546
65°	348	320	287	312	350	353
75°	229	197	171	175	202	239
85°	101	105	80	77	82	103
90°	0	0	0	0	0	



TEST NUMBER: P476091

CATALOG NUMBER: 22GR-LD5-43-A125-UNV-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2016.4	2016.4	2016.4	2016.4	2016.4
2.5°	2016.4	2012.3	2010.2	2017.5	2021.5
5°	2007.2	2002.1	2002.1	2012.3	2018.6
7.5°	1991.0	1985.9	1991.8	2001.0	2007.2
10°	1967.5	1965.4	1969.4	1981.9	1989.9
12.5°	1936.8	1937.9	1941.9	1961.3	1971.6
15°	1899.0	1903.1	1912.5	1932.7	1944.9
17.5°	1858.3	1861.5	1875.5	1899.0	1916.5
20°	1809.4	1815.3	1832.9	1862.3	1879.8
22.5°	1755.2	1762.5	1783.8	1819.7	1841.0
25°	1694.2	1701.2	1728.7	1769.5	1792.1
27.5°	1624.8	1635.9	1666.7	1711.5	1741.9
30°	1551.4	1560.6	1595.1	1646.1	1671.8
32.5°	1472.9	1484.0	1516.6	1565.5	1588.1
35°	1390.0	1396.3	1428.9	1471.8	1501.2
37.5°	1296.4	1299.4	1329.9	1369.8	1396.3
40°	1195.5	1197.4	1224.9	1262.7	1286.2
42.5°	1090.2	1091.3	1121.0	1149.3	1169.8
45°	980.1	991.5	1015.8	1040.3	1052.5
47.5°	881.1	889.5	911.9	933.2	944.5
50°	778.3	798.5	813.9	825.2	838.5
52.5°	689.5	706.8	710.8	724.0	735.4
55°	603.7	616.1	612.0	623.1	634.4
57.5°	531.4	525.1	511.9	531.4	545.7
60°	463.1	446.6	424.2	450.9	472.3
62.5°	401.8	375.4	347.8	374.3	409.9
65°	347.8	320.3	286.6	312.2	349.7
67.5°	307.1	278.5	238.6	264.2	302.0
70°	276.3	246.9	205.9	227.5	261.2
72.5°	252.0	220.2	184.6	198.9	227.5
75°	228.6	196.7	171.4	175.4	201.9
77.5°	201.0	177.6	157.1	154.9	175.4
80°	168.4	161.1	136.5	133.6	144.9
82.5°	138.7	135.7	112.3	109.0	113.3
85°	100.9	105.0	79.6	77.4	81.5
87.5°	53.2	58.0	41.8	44.0	44.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)