

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: P476103

Luminaire Tested: **22GR-LD5-43-A125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476103
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-L840-CD1-U
Description: GR 2'X2' LED TROFFER w/ A125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.5 lumens
Efficiency: N/A
Efficacy: 128.1 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

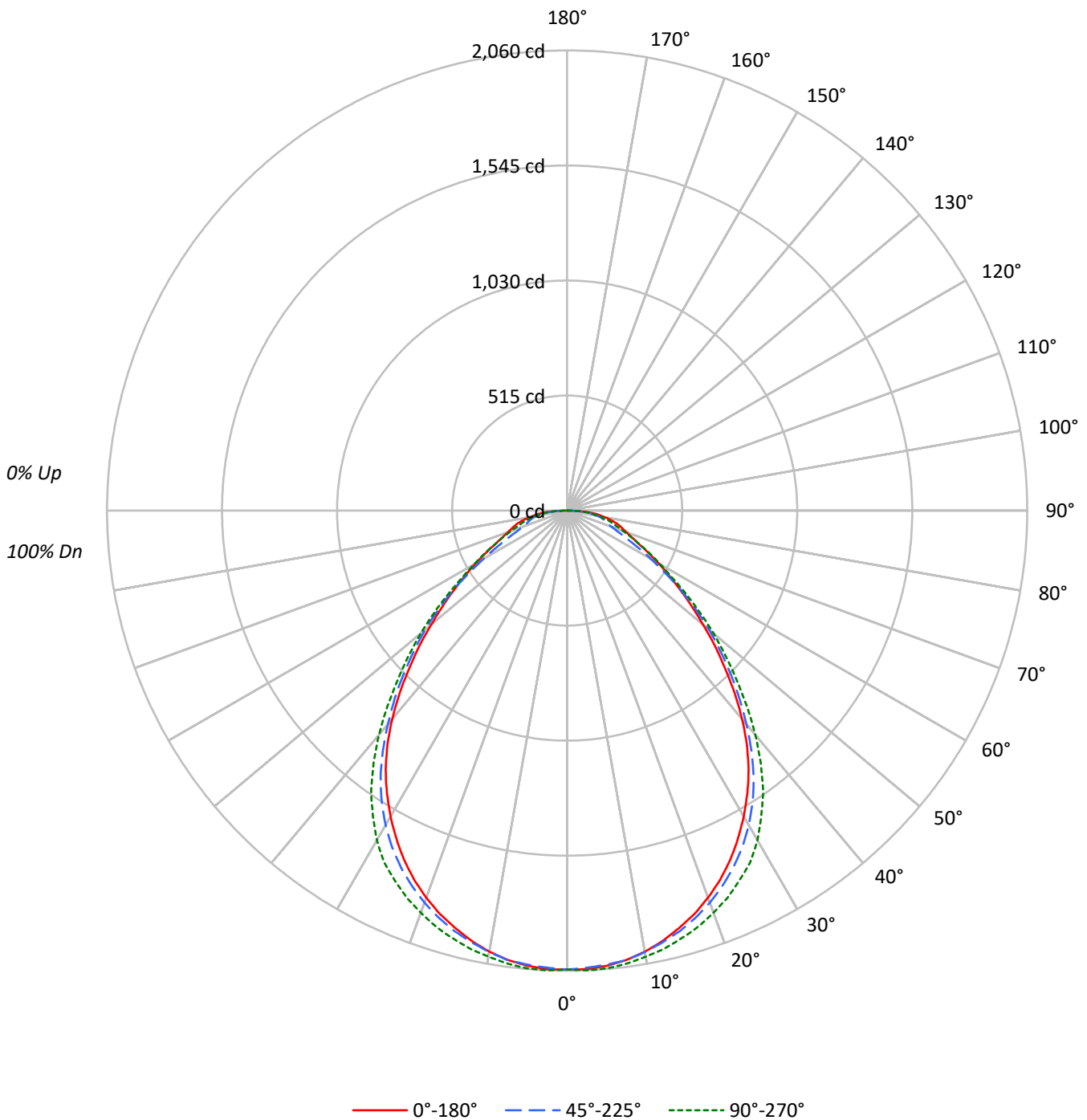
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	5529	5529	5529
5°	5525	5511	5556
10°	5478	5484	5541
15°	5391	5429	5521
20°	5280	5348	5486
25°	5126	5230	5422
30°	4912	5051	5293
35°	4653	4783	5026
40°	4279	4385	4604
45°	3801	3939	4081
50°	3320	3472	3577
55°	2886	2926	3033
60°	2540	2327	2590
65°	2257	1859	2269
70°	2216	1651	2094
75°	2421	1815	2139
80°	2659	2156	2289
85°	3174	2504	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	4.4
10°-20°	550.7	12.4
20°-30°	813.0	18.2
30°-40°	909.7	20.4
40°-50°	798.9	17.9
50°-60°	565.2	12.7
60°-70°	329.0	7.4
70°-80°	205.0	4.6
80°-90°	91.7	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°	1557.9	34.9
0°-40°	2467.6	55.4
0°-60°	3831.7	86.0
0°-90°	4457.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4457.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2055	2055	2055	2055	2055	
5°	2045	2040	2040	2051	2057	194
15°	1935	1939	1949	1970	1982	545
25°	1726	1734	1762	1803	1826	793
35°	1416	1423	1456	1500	1530	881
45°	999	1010	1035	1060	1072	772
55°	615	628	624	635	646	556
65°	354	326	292	318	356	360
75°	233	200	175	179	206	243
85°	103	107	81	79	83	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2054.7	2054.7	2054.7	2054.7	2054.7
2.5°	2054.7	2050.6	2048.4	2055.8	2059.9
5°	2045.4	2040.1	2040.1	2050.6	2056.9
7.5°	2028.9	2023.6	2029.7	2039.0	2045.4
10°	2004.9	2002.7	2006.9	2019.5	2027.8
12.5°	1973.6	1974.7	1978.8	1998.6	2009.1
15°	1935.1	1939.2	1948.8	1969.5	1981.8
17.5°	1893.6	1896.9	1911.2	1935.1	1953.0
20°	1843.8	1849.8	1867.7	1897.7	1915.6
22.5°	1788.5	1795.9	1817.7	1854.2	1876.0
25°	1726.4	1733.5	1761.6	1803.1	1826.2
27.5°	1655.7	1667.0	1698.3	1744.0	1775.0
30°	1580.9	1590.3	1625.4	1677.4	1703.5
32.5°	1500.9	1512.2	1545.4	1595.2	1618.3
35°	1416.5	1422.8	1456.1	1499.8	1529.8
37.5°	1321.0	1324.1	1355.1	1395.8	1422.8
40°	1218.2	1220.1	1248.2	1286.7	1310.6
42.5°	1110.9	1112.0	1142.3	1171.2	1192.1
45°	998.8	1010.3	1035.1	1060.1	1072.4
47.5°	897.8	906.4	929.2	950.9	962.5
50°	793.1	813.7	829.4	840.9	854.4
52.5°	702.6	720.2	724.3	737.8	749.3
55°	615.1	627.8	623.7	634.9	646.5
57.5°	541.4	535.1	521.7	541.4	556.0
60°	471.9	455.1	432.3	459.5	481.2
62.5°	409.5	382.5	354.5	381.4	417.7
65°	354.5	326.4	292.0	318.2	356.4
67.5°	312.9	283.8	243.1	269.2	307.7
70°	281.6	251.6	209.8	231.8	266.2
72.5°	256.8	224.4	188.1	202.7	231.8
75°	232.9	200.5	174.6	178.7	205.7
77.5°	204.9	180.9	160.0	157.8	178.7
80°	171.6	164.2	139.1	136.1	147.7
82.5°	141.3	138.3	114.4	111.1	115.5
85°	102.8	107.0	81.1	78.9	83.0
87.5°	54.2	59.1	42.6	44.8	45.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)