

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: P476328

Luminaire Tested: **14GR-LD5-43-A125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476328
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ A125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4348.5 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

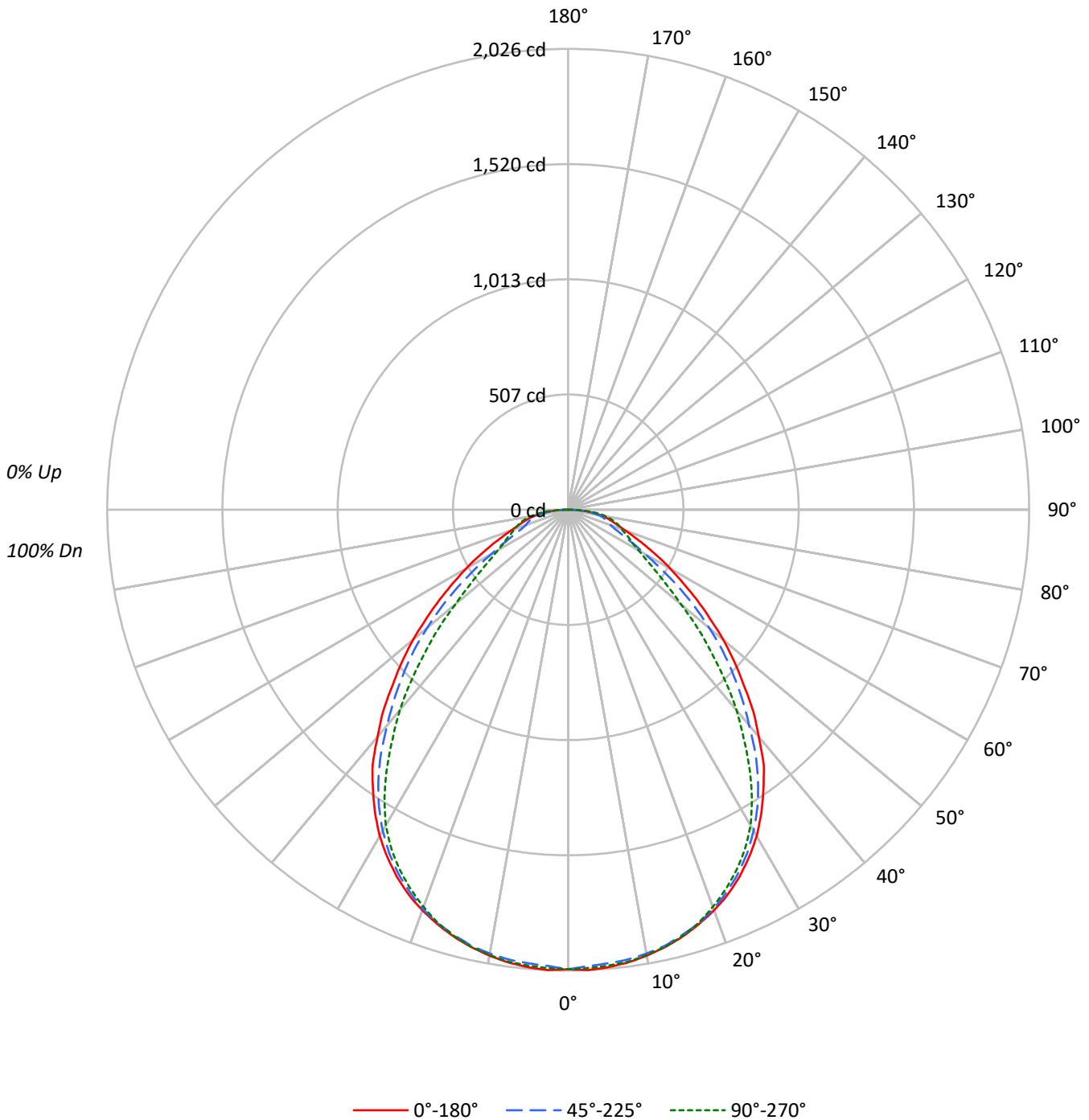
Input Watts (W): 33
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	50
6	74	62	54	48	72	61	53	48	59	52	47	58	51	47	56	51	46	44
7	69	57	48	43	68	56	48	43	54	47	42	53	47	42	52	46	42	40
8	65	52	44	39	63	51	44	38	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	47	40	35	46	40	35	45	39	35	44	39	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5436	5436	5436
5°	5454	5408	5435
10°	5440	5415	5431
15°	5414	5394	5405
20°	5368	5348	5322
25°	5287	5245	5194
30°	5147	5065	4980
35°	4916	4780	4565
40°	4576	4345	4047
45°	4157	3907	3392
50°	3723	3393	2703
55°	3233	2769	2195
60°	2790	2094	1914
65°	2387	1673	1879
70°	2107	1559	1972
75°	2101	1786	2249
80°	2270	2083	2583
85°	2433	2214	2964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	191.3	4.4
10°-20°	547.3	12.6
20°-30°	812.1	18.7
30°-40°	901.8	20.7
40°-50°	777.8	17.9
50°-60°	527.4	12.1
60°-70°	305.0	7.0
70°-80°	199.1	4.6
80°-90°	86.8	2.0
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°	1550.6	35.7
0°-40°	2452.4	56.4
0°-60°	3757.6	86.4
0°-90°	4348.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4348.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2019	2011	2002	2016	2012	192
15°	1943	1939	1936	1949	1940	548
25°	1781	1778	1766	1761	1749	819
35°	1497	1482	1455	1415	1390	933
45°	1092	1075	1027	942	891	844
55°	689	675	590	502	468	619
65°	375	332	263	269	295	377
75°	202	183	172	192	216	215
85°	79	77	72	100	96	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2020.1	2020.1	2020.1	2020.1	2020.1
2.5°	2026.1	2019.0	2007.9	2020.1	2017.0
5°	2019.0	2011.0	2001.9	2016.0	2012.0
7.5°	2007.9	1999.8	1994.8	2006.9	2004.9
10°	1990.8	1984.7	1981.7	1996.8	1987.7
12.5°	1969.5	1964.5	1963.5	1975.6	1968.5
15°	1943.3	1939.2	1936.2	1949.3	1940.2
17.5°	1910.9	1908.9	1906.9	1912.9	1904.9
20°	1874.5	1872.5	1867.5	1868.5	1858.4
22.5°	1832.1	1830.1	1820.0	1817.9	1806.8
25°	1780.6	1778.5	1766.4	1761.4	1749.2
27.5°	1721.9	1723.0	1702.7	1693.7	1682.5
30°	1656.3	1652.2	1630.0	1614.8	1602.7
32.5°	1579.5	1574.4	1548.1	1523.9	1502.7
35°	1496.6	1482.5	1455.2	1414.7	1389.5
37.5°	1411.7	1392.5	1352.1	1300.6	1267.2
40°	1302.6	1282.4	1236.9	1178.3	1152.0
42.5°	1204.6	1183.3	1132.8	1064.1	1022.7
45°	1092.4	1075.2	1026.7	941.8	891.3
47.5°	990.3	972.1	922.6	822.6	773.1
50°	889.3	869.1	810.4	702.3	645.7
52.5°	784.2	773.1	701.3	593.2	547.7
55°	689.2	675.0	590.2	502.2	467.9
57.5°	598.2	575.0	483.0	417.4	404.2
60°	518.4	486.1	389.1	352.7	355.7
62.5°	442.6	404.2	319.3	302.1	319.3
65°	374.9	332.5	262.7	268.8	295.1
67.5°	315.3	274.9	223.3	247.6	269.8
70°	267.8	234.4	198.1	225.3	250.6
72.5°	229.4	207.2	185.9	207.2	234.4
75°	202.1	182.9	171.8	192.0	216.3
77.5°	176.8	161.7	156.6	172.8	193.0
80°	146.5	139.5	134.4	155.6	166.7
82.5°	113.2	110.1	106.1	132.4	137.4
85°	78.8	76.8	71.7	100.0	96.0
87.5°	41.4	39.4	36.4	52.5	47.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)