

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: P291238

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4484.0 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

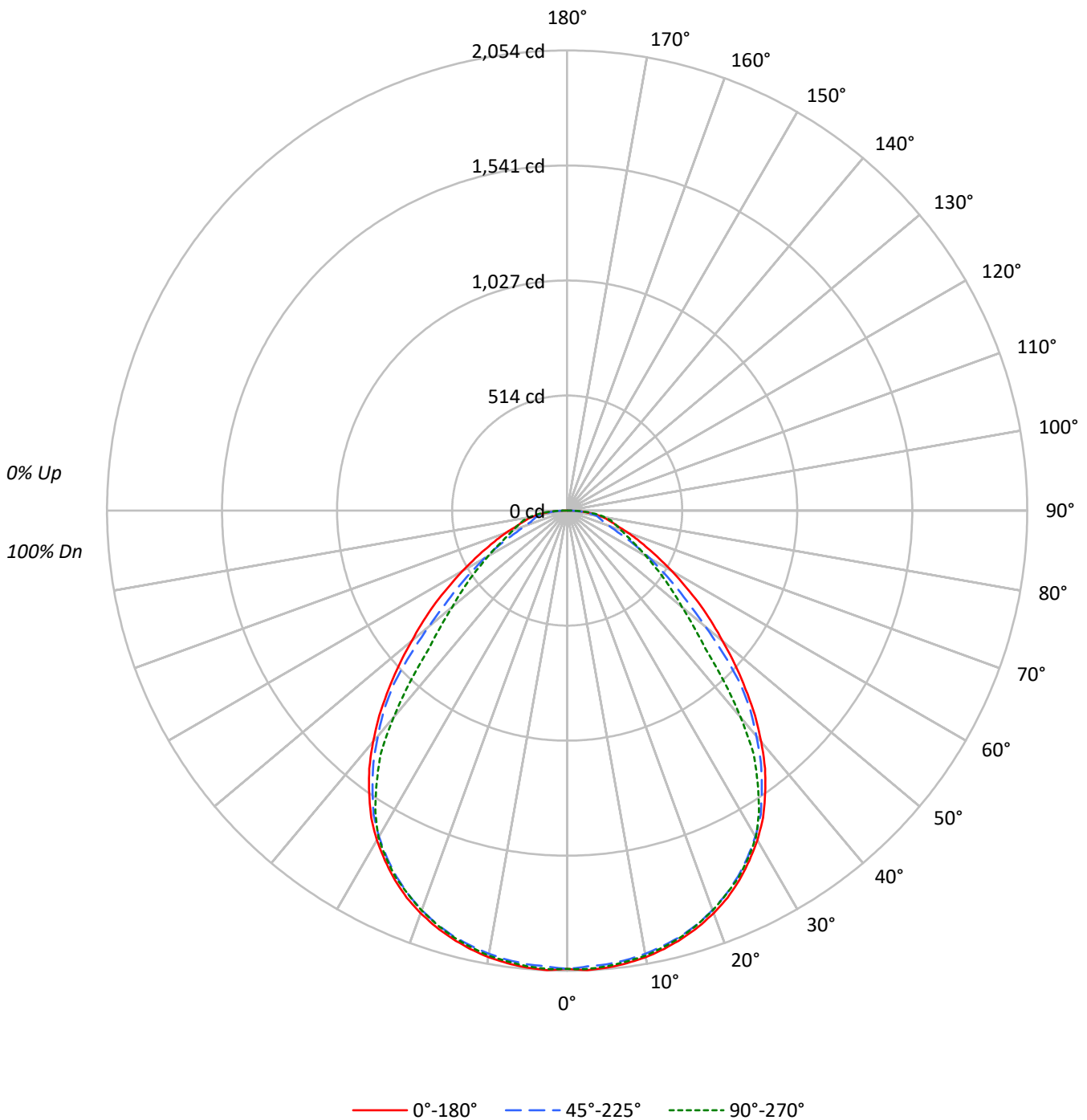
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	82	99	92	86	82	88	84	80	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	69	77	72	67	74	70	66	64
4	86	75	67	61	84	74	66	61	71	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	47	59	52	47	58	51	47	56	51	46	44
7	69	56	48	43	67	56	48	42	54	47	42	53	47	42	52	46	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	42	38	48	42	38	36
9	60	48	40	35	59	47	40	35	46	39	35	45	39	34	44	38	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5506	5506	5506
5°	5533	5491	5516
10°	5531	5489	5512
15°	5512	5477	5486
20°	5475	5434	5440
25°	5402	5353	5368
30°	5278	5220	5233
35°	5061	4976	4870
40°	4732	4615	4235
45°	4284	4161	3322
50°	3789	3366	2800
55°	3353	2767	2470
60°	2894	2290	2189
65°	2517	1822	2013
70°	2275	1563	2013
75°	2184	1633	2250
80°	2435	2080	2628
85°	2569	2217	3146



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.1	4.3
10°-20°	556.2	12.4
20°-30°	832.4	18.6
30°-40°	942.3	21.0
40°-50°	802.6	17.9
50°-60°	543.5	12.1
60°-70°	324.5	7.2
70°-80°	202.7	4.5
80°-90°	85.7	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°	1582.7	35.3
0°-40°	2525.1	56.3
0°-60°	3871.1	86.3
0°-90°	4484.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4484.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2046	2046	2046	2046	2046	
5°	2048	2043	2033	2045	2042	195
15°	1979	1971	1966	1979	1969	558
25°	1819	1814	1803	1811	1808	837
35°	1541	1531	1515	1499	1482	960
45°	1126	1129	1093	932	873	868
55°	715	675	590	526	526	639
65°	395	330	286	306	316	398
75°	210	188	157	206	216	227
85°	83	77	72	90	102	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2046.2	2046.2	2046.2	2046.2	2046.2
2.5°	2053.5	2048.3	2036.8	2050.4	2048.3
5°	2048.3	2043.1	2032.7	2045.1	2042.0
7.5°	2037.9	2032.7	2023.3	2035.8	2030.6
10°	2024.3	2018.1	2008.7	2022.3	2017.1
12.5°	2003.5	1997.3	1989.0	2002.5	1995.2
15°	1978.6	1971.3	1966.1	1978.6	1969.2
17.5°	1948.4	1942.2	1934.9	1947.4	1937.0
20°	1912.0	1906.8	1897.4	1904.7	1899.5
22.5°	1870.4	1863.1	1853.7	1862.1	1854.8
25°	1819.4	1814.2	1802.8	1811.1	1808.0
27.5°	1761.2	1758.0	1744.5	1754.9	1749.7
30°	1698.7	1690.4	1680.0	1683.1	1684.2
32.5°	1627.0	1616.6	1608.2	1601.0	1593.7
35°	1540.6	1531.3	1514.6	1499.0	1482.4
37.5°	1451.2	1438.7	1422.0	1387.7	1366.9
40°	1347.1	1340.9	1313.8	1266.0	1205.7
42.5°	1241.0	1234.8	1210.9	1103.7	1038.2
45°	1125.6	1128.7	1093.3	932.1	872.8
47.5°	1015.3	1023.6	946.6	795.8	764.6
50°	905.0	914.4	804.1	687.6	668.9
52.5°	808.3	801.0	685.5	603.4	595.0
55°	714.7	675.1	589.8	526.4	526.4
57.5°	619.0	562.8	501.4	460.8	460.8
60°	537.8	468.1	425.5	398.4	406.7
62.5°	462.9	389.1	352.6	347.4	357.8
65°	395.3	329.8	286.1	305.8	316.2
67.5°	340.2	281.9	235.1	276.7	283.0
70°	289.2	245.5	198.7	254.9	255.9
72.5°	242.4	216.4	170.6	230.9	235.1
75°	210.1	188.3	157.1	206.0	216.4
77.5°	184.1	161.2	144.6	177.9	197.6
80°	157.1	132.1	134.2	149.8	169.6
82.5°	120.7	101.9	106.1	122.8	138.4
85°	83.2	77.0	71.8	90.5	101.9
87.5°	44.7	41.6	36.4	51.0	52.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)