

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: P291239

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291239
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4545.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

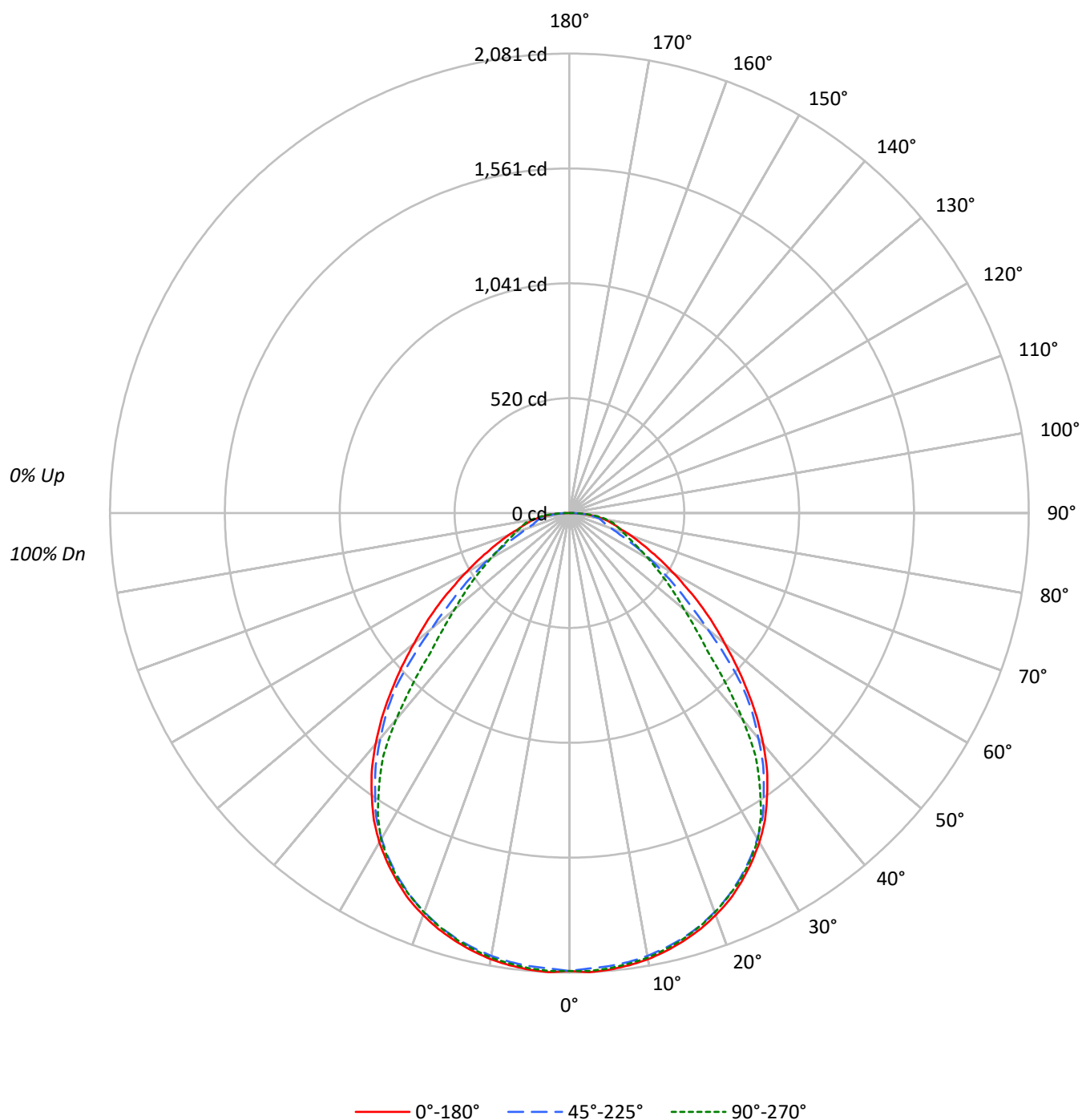
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291239

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot



TEST NUMBER: P291239

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20
RC	80					70					50					30					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°	5581	5581	5581
5°	5608	5565	5591
10°	5607	5564	5587
15°	5587	5552	5561
20°	5550	5507	5514
25°	5476	5426	5441
30°	5350	5291	5304
35°	5130	5043	4936
40°	4797	4678	4293
45°	4342	4217	3367
50°	3840	3412	2838
55°	3399	2805	2503
60°	2934	2321	2219
65°	2551	1847	2041
70°	2306	1585	2041
75°	2215	1655	2280
80°	2467	2108	2664
85°	2606	2248	3189



TEST NUMBER: P291239

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.7	4.3
10°-20°	563.8	12.4
20°-30°	843.8	18.6
30°-40°	955.1	21.0
40°-50°	813.6	17.9
50°-60°	550.8	12.1
60°-70°	328.9	7.2
70°-80°	205.5	4.5
80°-90°	86.8	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°	1604.3	35.3
0°-40°	2559.4	56.3
0°-60°	3923.8	86.3
0°-90°	4545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2074	2074	2074	2074	2074	
5°	2076	2071	2060	2073	2070	197
15°	2006	1998	1993	2006	1996	566
25°	1844	1839	1827	1836	1833	848
35°	1562	1552	1535	1519	1502	973
45°	1141	1144	1108	945	885	880
55°	724	684	598	534	534	648
65°	401	334	290	310	320	404
75°	213	191	159	209	219	230
85°	84	78	73	92	103	90
90°	0	0	0	0	0	



TEST NUMBER: P291239

CATALOG NUMBER: 14GR-LD5-43-A125-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2074.0	2074.0	2074.0	2074.0	2074.0
2.5°	2081.4	2076.1	2064.5	2078.2	2076.1
5°	2076.1	2070.9	2060.3	2073.0	2069.8
7.5°	2065.6	2060.3	2050.8	2063.5	2058.2
10°	2051.9	2045.6	2036.1	2049.8	2044.5
12.5°	2030.8	2024.5	2016.0	2029.7	2022.4
15°	2005.5	1998.1	1992.8	2005.5	1996.0
17.5°	1974.9	1968.6	1961.2	1973.9	1963.3
20°	1938.0	1932.7	1923.2	1930.6	1925.4
22.5°	1895.8	1888.5	1879.0	1887.4	1880.0
25°	1844.2	1838.9	1827.3	1835.7	1832.6
27.5°	1785.1	1782.0	1768.2	1778.8	1773.5
30°	1721.9	1713.4	1702.9	1706.0	1707.1
32.5°	1649.1	1638.6	1630.1	1622.7	1615.4
35°	1561.6	1552.1	1535.2	1519.4	1502.5
37.5°	1470.9	1458.3	1441.4	1406.6	1385.5
40°	1365.5	1359.1	1331.7	1283.2	1222.1
42.5°	1257.9	1251.6	1227.3	1118.7	1052.3
45°	1140.9	1144.0	1108.2	944.8	884.7
47.5°	1029.1	1037.5	959.5	806.6	775.0
50°	917.3	926.8	815.1	697.0	678.0
52.5°	819.3	811.9	694.9	611.6	603.1
55°	724.4	684.3	597.9	533.5	533.5
57.5°	627.4	570.4	508.2	467.1	467.1
60°	545.1	474.5	431.3	403.8	412.3
62.5°	469.2	394.3	357.4	352.2	362.7
65°	400.7	334.2	290.0	310.0	320.5
67.5°	344.8	285.7	238.3	280.5	286.8
70°	293.1	248.8	201.4	258.3	259.4
72.5°	245.7	219.3	172.9	234.1	238.3
75°	213.0	190.8	159.2	208.8	219.3
77.5°	186.6	163.4	146.6	180.3	200.3
80°	159.2	133.9	136.0	151.8	171.9
82.5°	122.3	103.3	107.5	124.4	140.2
85°	84.4	78.0	72.8	91.7	103.3
87.5°	45.3	42.2	36.9	51.7	52.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)