

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: P291338

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291338
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4143.0 lumens
Efficiency: N/A
Efficacy: 110.3 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

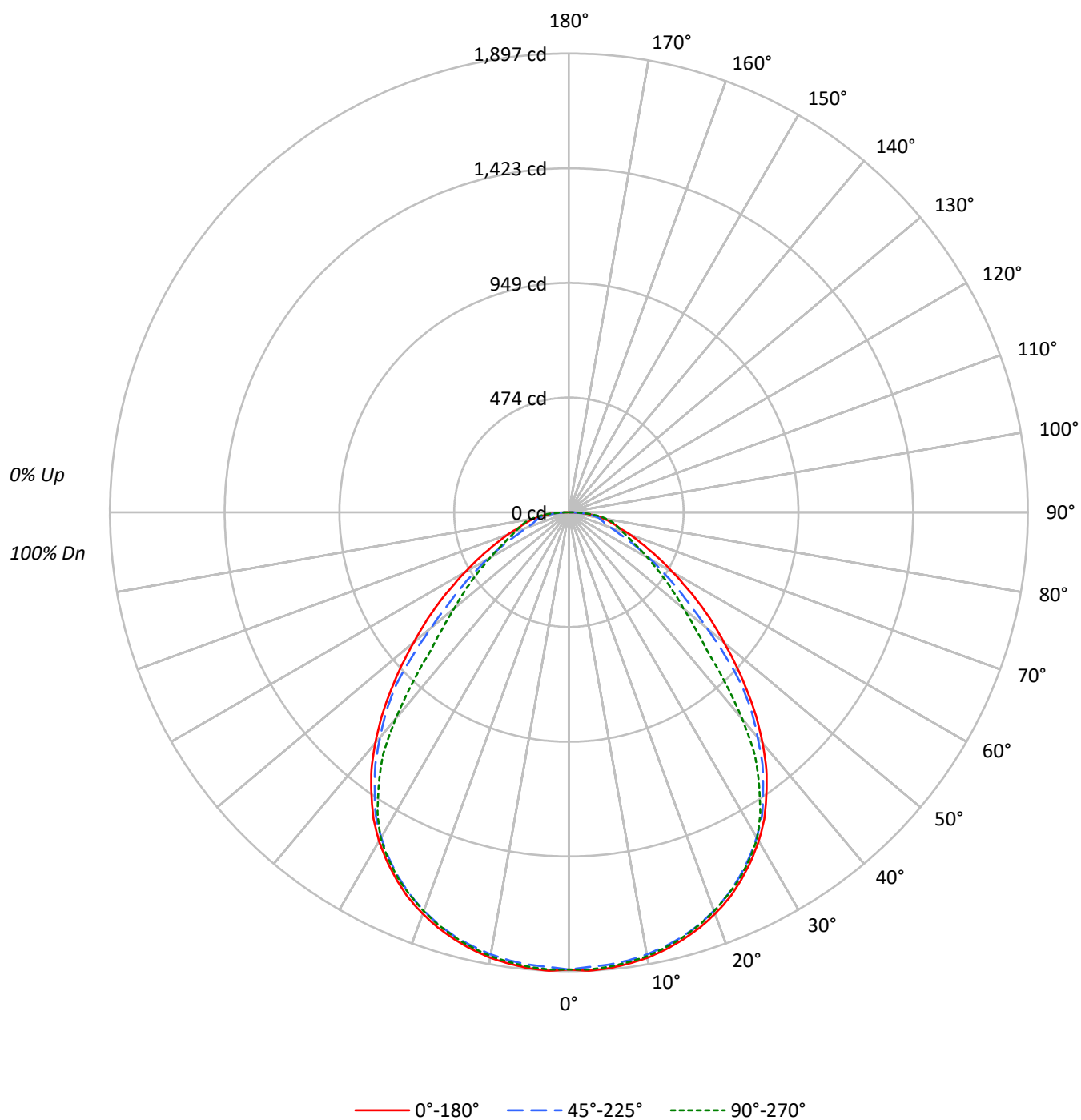
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5088	5088	5088
5°	5112	5073	5096
10°	5111	5072	5093
15°	5093	5061	5069
20°	5059	5020	5026
25°	4991	4946	4960
30°	4877	4823	4835
35°	4676	4597	4499
40°	4372	4264	3913
45°	3958	3844	3069
50°	3501	3111	2587
55°	3098	2557	2282
60°	2674	2116	2023
65°	2325	1683	1861
70°	2102	1445	1860
75°	2019	1509	2078
80°	2249	1922	2428
85°	2374	2047	2908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.3	4.3
10°-20°	513.9	12.4
20°-30°	769.1	18.6
30°-40°	870.6	21.0
40°-50°	741.6	17.9
50°-60°	502.1	12.1
60°-70°	299.8	7.2
70°-80°	187.3	4.5
80°-90°	79.2	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°	1462.4	35.3
0°-40°	2333.0	56.3
0°-60°	3576.8	86.3
0°-90°	4143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1891	1891	1891	1891	1891	
5°	1892	1888	1878	1890	1887	180
15°	1828	1821	1817	1828	1820	516
25°	1681	1676	1666	1673	1670	773
35°	1424	1415	1399	1385	1370	887
45°	1040	1043	1010	861	806	802
55°	660	624	545	486	486	590
65°	365	305	264	283	292	368
75°	194	174	145	190	200	210
85°	77	71	66	84	94	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1890.6	1890.6	1890.6	1890.6	1890.6
2.5°	1897.3	1892.5	1881.9	1894.4	1892.5
5°	1892.5	1887.7	1878.1	1889.6	1886.7
7.5°	1882.9	1878.1	1869.4	1881.0	1876.2
10°	1870.4	1864.6	1856.0	1868.5	1863.7
12.5°	1851.2	1845.4	1837.7	1850.2	1843.5
15°	1828.1	1821.4	1816.6	1828.1	1819.5
17.5°	1800.2	1794.5	1787.7	1799.3	1789.7
20°	1766.6	1761.8	1753.1	1759.9	1755.1
22.5°	1728.1	1721.4	1712.8	1720.5	1713.7
25°	1681.1	1676.2	1665.7	1673.4	1670.5
27.5°	1627.2	1624.3	1611.8	1621.5	1616.7
30°	1569.6	1561.9	1552.3	1555.1	1556.1
32.5°	1503.2	1493.6	1485.9	1479.2	1472.5
35°	1423.5	1414.8	1399.4	1385.0	1369.6
37.5°	1340.8	1329.3	1313.9	1282.2	1263.0
40°	1244.7	1238.9	1213.9	1169.7	1114.0
42.5°	1146.7	1140.9	1118.8	1019.8	959.2
45°	1040.0	1042.8	1010.2	861.2	806.4
47.5°	938.1	945.8	874.6	735.3	706.4
50°	836.2	844.9	743.0	635.3	618.0
52.5°	746.8	740.1	633.4	557.5	549.8
55°	660.3	623.8	545.0	486.3	486.3
57.5°	571.9	520.0	463.3	425.8	425.8
60°	496.9	432.5	393.1	368.1	375.8
62.5°	427.7	359.5	325.8	321.0	330.6
65°	365.2	304.7	264.3	282.6	292.2
67.5°	314.3	260.5	217.2	255.7	261.4
70°	267.2	226.8	183.6	235.5	236.4
72.5°	223.9	199.9	157.6	213.4	217.2
75°	194.2	174.0	145.1	190.3	199.9
77.5°	170.1	149.0	133.6	164.4	182.6
80°	145.1	122.1	124.0	138.4	156.7
82.5°	111.5	94.2	98.0	113.4	127.8
85°	76.9	71.1	66.3	83.6	94.2
87.5°	41.3	38.4	33.6	47.1	48.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)