

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: P291339

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291339
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4161.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

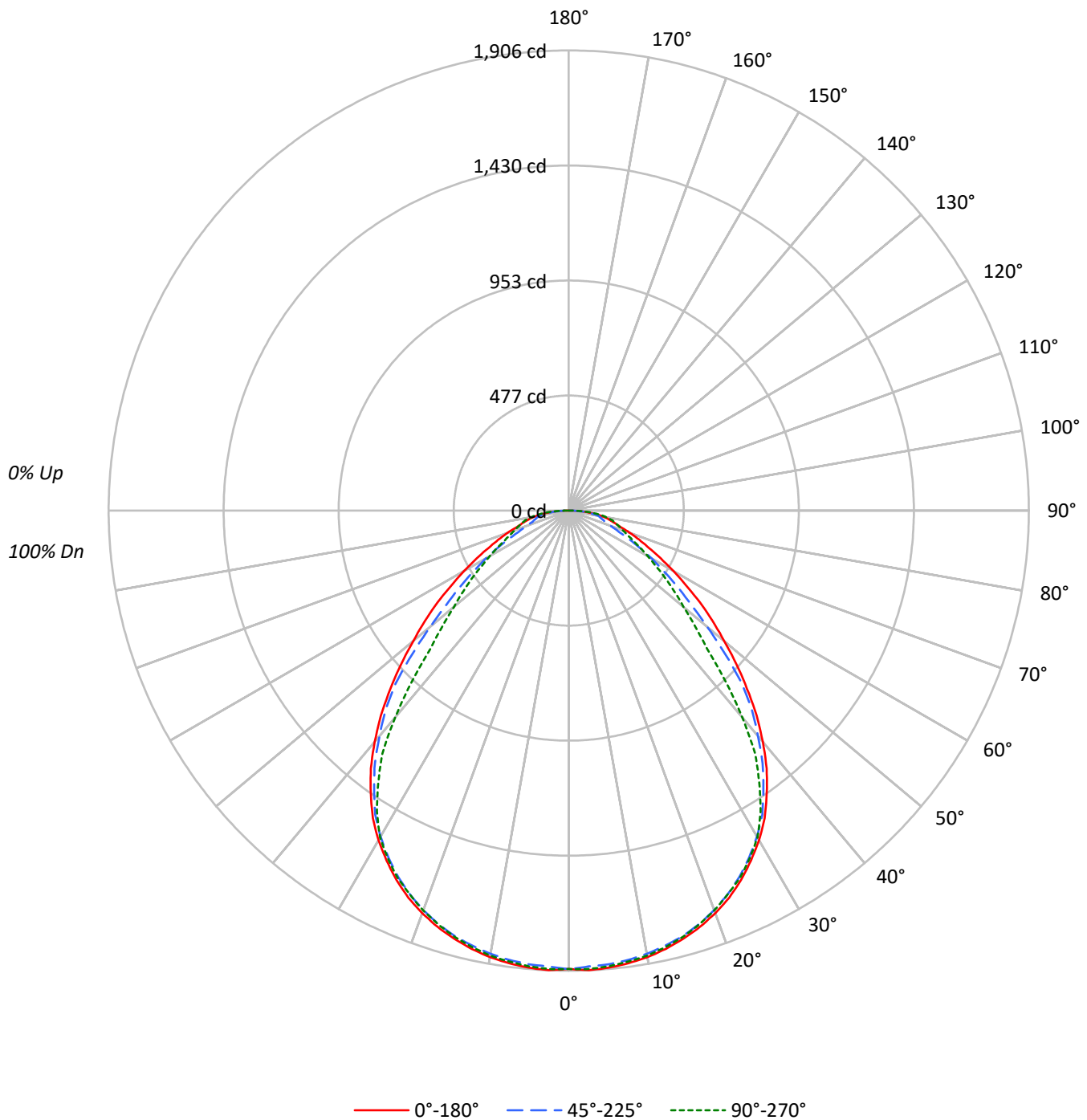
Input Watts (W): 37.665
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5110	5110	5110
5°	5134	5095	5119
10°	5133	5093	5115
15°	5115	5083	5091
20°	5081	5042	5048
25°	5013	4967	4981
30°	4898	4844	4856
35°	4696	4617	4519
40°	4391	4283	3930
45°	3975	3861	3082
50°	3516	3124	2599
55°	3111	2568	2292
60°	2686	2125	2031
65°	2336	1691	1869
70°	2112	1451	1869
75°	2027	1516	2088
80°	2259	1929	2438
85°	2384	2056	2921



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	4.3
10°-20°	516.2	12.4
20°-30°	772.5	18.6
30°-40°	874.4	21.0
40°-50°	744.8	17.9
50°-60°	504.3	12.1
60°-70°	301.1	7.2
70°-80°	188.1	4.5
80°-90°	79.5	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°	1468.7	35.3
0°-40°	2343.2	56.3
0°-60°	3592.3	86.3
0°-90°	4161.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4161.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1899	1899	1899	1899	1899	
5°	1901	1896	1886	1898	1895	181
15°	1836	1829	1824	1836	1827	518
25°	1688	1684	1673	1681	1678	776
35°	1430	1421	1406	1391	1376	891
45°	1044	1047	1015	865	810	806
55°	663	626	547	488	488	593
65°	367	306	266	284	294	370
75°	195	175	146	191	201	211
85°	77	71	67	84	95	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1898.8	1898.8	1898.8	1898.8	1898.8
2.5°	1905.6	1900.7	1890.1	1902.7	1900.7
5°	1900.7	1895.9	1886.2	1897.8	1894.9
7.5°	1891.1	1886.2	1877.6	1889.1	1884.3
10°	1878.5	1872.7	1864.0	1876.6	1871.8
12.5°	1859.2	1853.4	1845.7	1858.3	1851.5
15°	1836.0	1829.3	1824.5	1836.0	1827.4
17.5°	1808.1	1802.3	1795.5	1807.1	1797.4
20°	1774.3	1769.4	1760.8	1767.5	1762.7
22.5°	1735.7	1728.9	1720.2	1727.9	1721.2
25°	1688.4	1683.5	1672.9	1680.6	1677.7
27.5°	1634.3	1631.4	1618.9	1628.5	1623.7
30°	1576.4	1568.7	1559.0	1561.9	1562.9
32.5°	1509.8	1500.1	1492.4	1485.6	1478.9
35°	1429.6	1421.0	1405.5	1391.0	1375.6
37.5°	1346.6	1335.0	1319.6	1287.7	1268.4
40°	1250.1	1244.3	1219.2	1174.8	1118.8
42.5°	1151.6	1145.8	1123.6	1024.2	963.4
45°	1044.5	1047.4	1014.6	864.9	809.9
47.5°	942.2	949.9	878.4	738.5	709.5
50°	839.8	848.5	746.2	638.1	620.7
52.5°	750.1	743.3	636.1	559.9	552.2
55°	663.2	626.5	547.3	488.5	488.5
57.5°	574.4	522.2	465.3	427.6	427.6
60°	499.1	434.4	394.8	369.7	377.4
62.5°	429.6	361.0	327.2	322.4	332.1
65°	366.8	306.0	265.5	283.8	293.5
67.5°	315.7	261.6	218.2	256.8	262.6
70°	268.4	227.8	184.4	236.5	237.5
72.5°	224.9	200.8	158.3	214.3	218.2
75°	195.0	174.7	145.8	191.1	200.8
77.5°	170.9	149.6	134.2	165.1	183.4
80°	145.8	122.6	124.5	139.0	157.3
82.5°	112.0	94.6	98.5	113.9	128.4
85°	77.2	71.4	66.6	84.0	94.6
87.5°	41.5	38.6	33.8	47.3	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)