

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: P291335

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291335
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3899.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

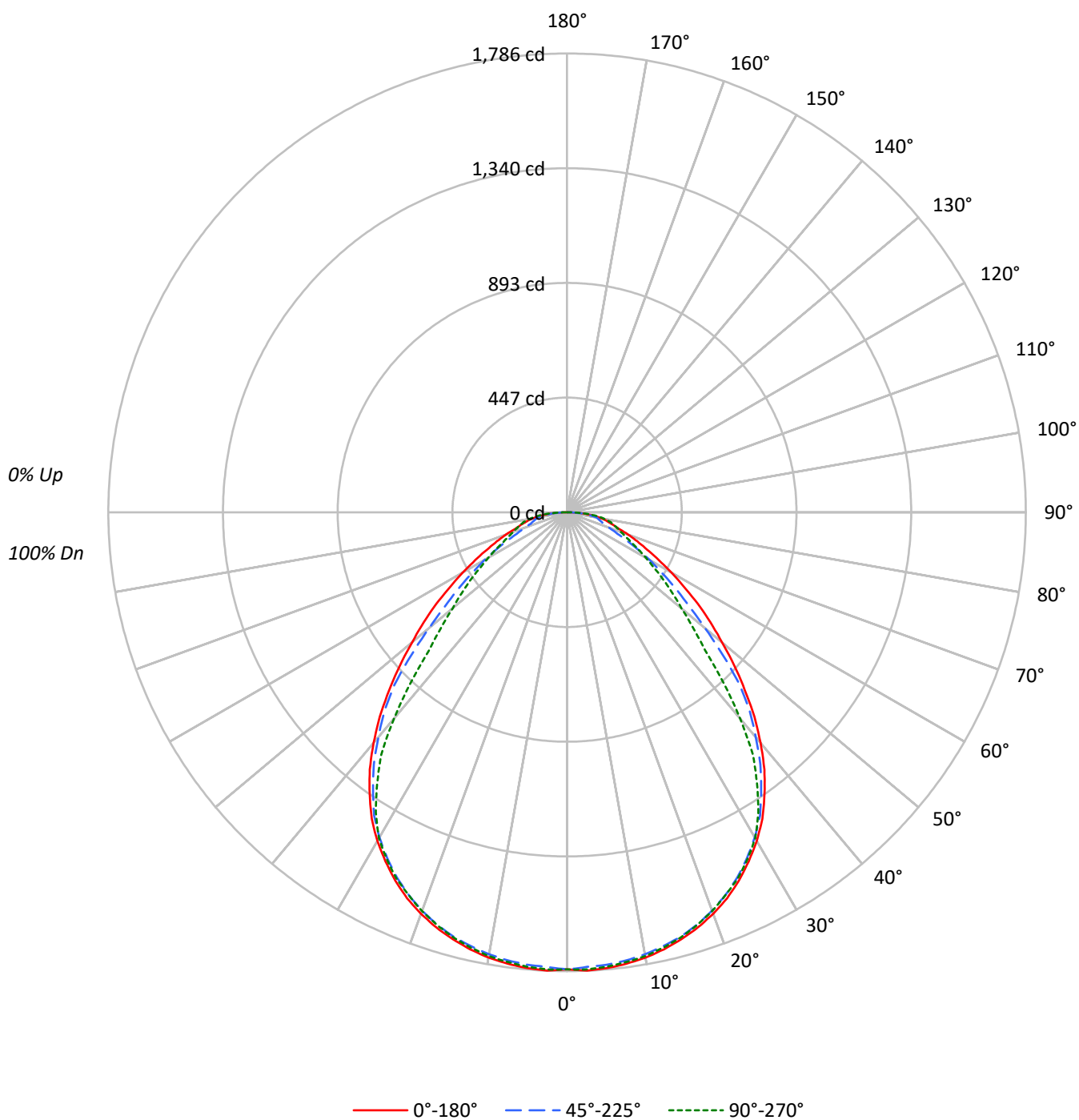
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4788	4788	4788
5°	4811	4774	4796
10°	4810	4773	4793
15°	4793	4763	4770
20°	4761	4725	4730
25°	4697	4654	4668
30°	4590	4539	4551
35°	4401	4326	4234
40°	4115	4013	3683
45°	3725	3618	2888
50°	3295	2927	2435
55°	2915	2406	2147
60°	2517	1991	1904
65°	2188	1584	1751
70°	1979	1360	1751
75°	1900	1420	1956
80°	2117	1808	2284
85°	2235	1927	2736



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.8	4.3
10°-20°	483.7	12.4
20°-30°	723.8	18.6
30°-40°	819.4	21.0
40°-50°	697.9	17.9
50°-60°	472.5	12.1
60°-70°	282.1	7.2
70°-80°	176.3	4.5
80°-90°	74.5	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°	1376.3	35.3
0°-40°	2195.6	56.3
0°-60°	3366.1	86.3
0°-90°	3899.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3899.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1779	1779	1779	1779	1779	
5°	1781	1776	1768	1778	1776	169
15°	1720	1714	1710	1720	1712	485
25°	1582	1578	1568	1575	1572	728
35°	1340	1332	1317	1303	1289	835
45°	979	981	951	810	759	755
55°	621	587	513	458	458	556
65°	344	287	249	266	275	346
75°	183	164	137	179	188	197
85°	72	67	62	79	89	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1779.2	1779.2	1779.2	1779.2	1779.2
2.5°	1785.6	1781.0	1771.1	1782.9	1781.0
5°	1781.0	1776.5	1767.5	1778.3	1775.6
7.5°	1772.0	1767.5	1759.3	1770.2	1765.7
10°	1760.2	1754.8	1746.7	1758.4	1753.9
12.5°	1742.2	1736.7	1729.5	1741.2	1734.9
15°	1720.4	1714.1	1709.6	1720.4	1712.3
17.5°	1694.2	1688.8	1682.5	1693.3	1684.3
20°	1662.6	1658.0	1649.9	1656.2	1651.7
22.5°	1626.4	1620.0	1611.9	1619.1	1612.8
25°	1582.0	1577.5	1567.6	1574.8	1572.1
27.5°	1531.4	1528.7	1516.9	1526.0	1521.4
30°	1477.1	1469.9	1460.8	1463.6	1464.5
32.5°	1414.7	1405.7	1398.4	1392.1	1385.8
35°	1339.6	1331.5	1317.0	1303.4	1289.0
37.5°	1261.8	1251.0	1236.5	1206.7	1188.6
40°	1171.4	1166.0	1142.4	1100.8	1048.4
42.5°	1079.1	1073.7	1052.9	959.7	902.7
45°	978.7	981.4	950.7	810.5	758.9
47.5°	882.8	890.1	823.1	692.0	664.8
50°	787.0	795.1	699.2	597.9	581.6
52.5°	702.8	696.5	596.1	524.6	517.4
55°	621.4	587.0	512.9	457.7	457.7
57.5°	538.2	489.4	436.0	400.7	400.7
60°	467.6	407.0	370.0	346.4	353.7
62.5°	402.5	338.3	306.6	302.1	311.2
65°	343.7	286.7	248.7	265.9	275.0
67.5°	295.8	245.1	204.4	240.6	246.0
70°	251.5	213.5	172.8	221.6	222.5
72.5°	210.8	188.1	148.3	200.8	204.4
75°	182.7	163.7	136.6	179.1	188.1
77.5°	160.1	140.2	125.7	154.7	171.9
80°	136.6	114.9	116.7	130.3	147.4
82.5°	104.9	88.6	92.3	106.7	120.3
85°	72.4	66.9	62.4	78.7	88.6
87.5°	38.9	36.2	31.7	44.3	45.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)