

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: P291337

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291337
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4080.0 lumens
Efficiency: N/A
Efficacy: 109.1 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

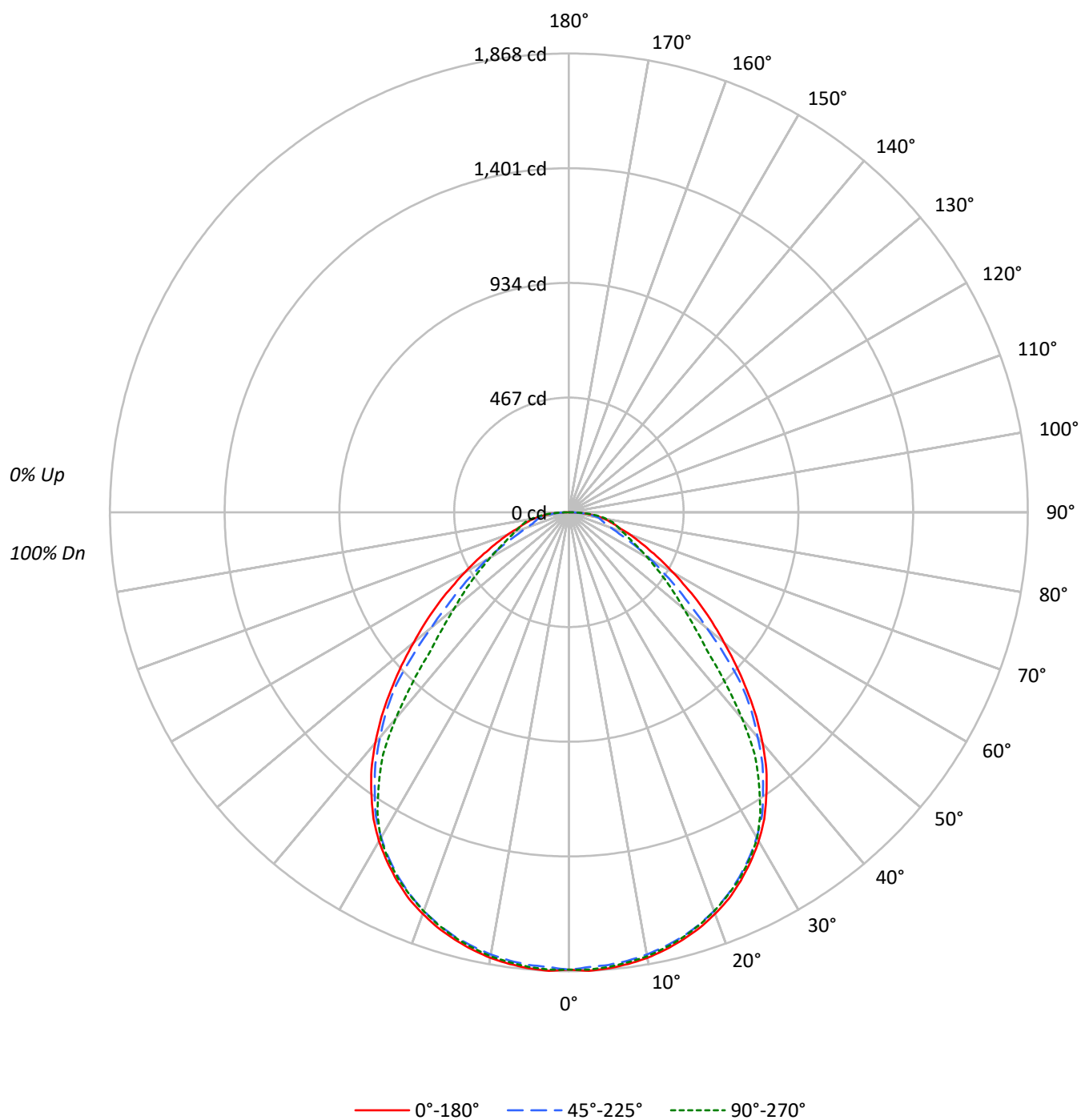
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5010	5010	5010
5°	5034	4996	5019
10°	5033	4994	5015
15°	5015	4984	4992
20°	4982	4944	4950
25°	4915	4870	4885
30°	4803	4750	4762
35°	4605	4527	4431
40°	4306	4200	3854
45°	3897	3786	3022
50°	3448	3063	2548
55°	3051	2518	2247
60°	2634	2083	1992
65°	2290	1657	1832
70°	2070	1423	1832
75°	1988	1486	2047
80°	2214	1892	2391
85°	2337	2016	2865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.6	4.3
10°-20°	506.1	12.4
20°-30°	757.4	18.6
30°-40°	857.4	21.0
40°-50°	730.3	17.9
50°-60°	494.5	12.1
60°-70°	295.2	7.2
70°-80°	184.4	4.5
80°-90°	78.0	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°	1440.1	35.3
0°-40°	2297.6	56.3
0°-60°	3522.4	86.3
0°-90°	4080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1864	1859	1850	1861	1858	177
15°	1800	1794	1789	1800	1792	508
25°	1656	1651	1640	1648	1645	761
35°	1402	1393	1378	1364	1349	874
45°	1024	1027	995	848	794	790
55°	650	614	537	479	479	581
65°	360	300	260	278	288	363
75°	191	171	143	187	197	206
85°	76	70	65	82	93	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.8	1861.8	1861.8	1861.8	1861.8
2.5°	1868.5	1863.7	1853.3	1865.6	1863.7
5°	1863.7	1859.0	1849.5	1860.9	1858.0
7.5°	1854.3	1849.5	1841.0	1852.4	1847.6
10°	1842.0	1836.3	1827.8	1840.1	1835.3
12.5°	1823.0	1817.3	1809.8	1822.1	1815.5
15°	1800.3	1793.7	1788.9	1800.3	1791.8
17.5°	1772.9	1767.2	1760.6	1771.9	1762.4
20°	1739.7	1735.0	1726.5	1733.1	1728.4
22.5°	1701.9	1695.2	1686.7	1694.3	1687.7
25°	1655.5	1650.8	1640.3	1647.9	1645.1
27.5°	1602.5	1599.6	1587.3	1596.8	1592.1
30°	1545.7	1538.1	1528.7	1531.5	1532.4
32.5°	1480.4	1470.9	1463.3	1456.7	1450.1
35°	1401.8	1393.3	1378.2	1364.0	1348.8
37.5°	1320.4	1309.1	1293.9	1262.7	1243.7
40°	1225.8	1220.1	1195.5	1151.9	1097.0
42.5°	1129.2	1123.5	1101.8	1004.3	944.6
45°	1024.1	1027.0	994.8	848.1	794.1
47.5°	923.8	931.4	861.3	724.1	695.7
50°	823.5	832.0	731.7	625.7	608.6
52.5°	735.5	728.8	623.8	549.0	541.4
55°	650.3	614.3	536.7	478.9	478.9
57.5°	563.2	512.1	456.2	419.3	419.3
60°	489.4	425.9	387.1	362.5	370.1
62.5°	421.2	354.0	320.9	316.1	325.6
65°	359.7	300.1	260.3	278.3	287.7
67.5°	309.5	256.5	213.9	251.8	257.5
70°	263.1	223.4	180.8	231.9	232.8
72.5°	220.5	196.9	155.2	210.1	213.9
75°	191.2	171.3	142.9	187.4	196.9
77.5°	167.5	146.7	131.6	161.9	179.8
80°	142.9	120.2	122.1	136.3	154.3
82.5°	109.8	92.8	96.5	111.7	125.9
85°	75.7	70.0	65.3	82.3	92.8
87.5°	40.7	37.9	33.1	46.4	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)