

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: P291340

Luminaire Tested: **14GR-LD5-43-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291340
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4189.0 lumens
Efficiency: N/A
Efficacy: 109.6 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

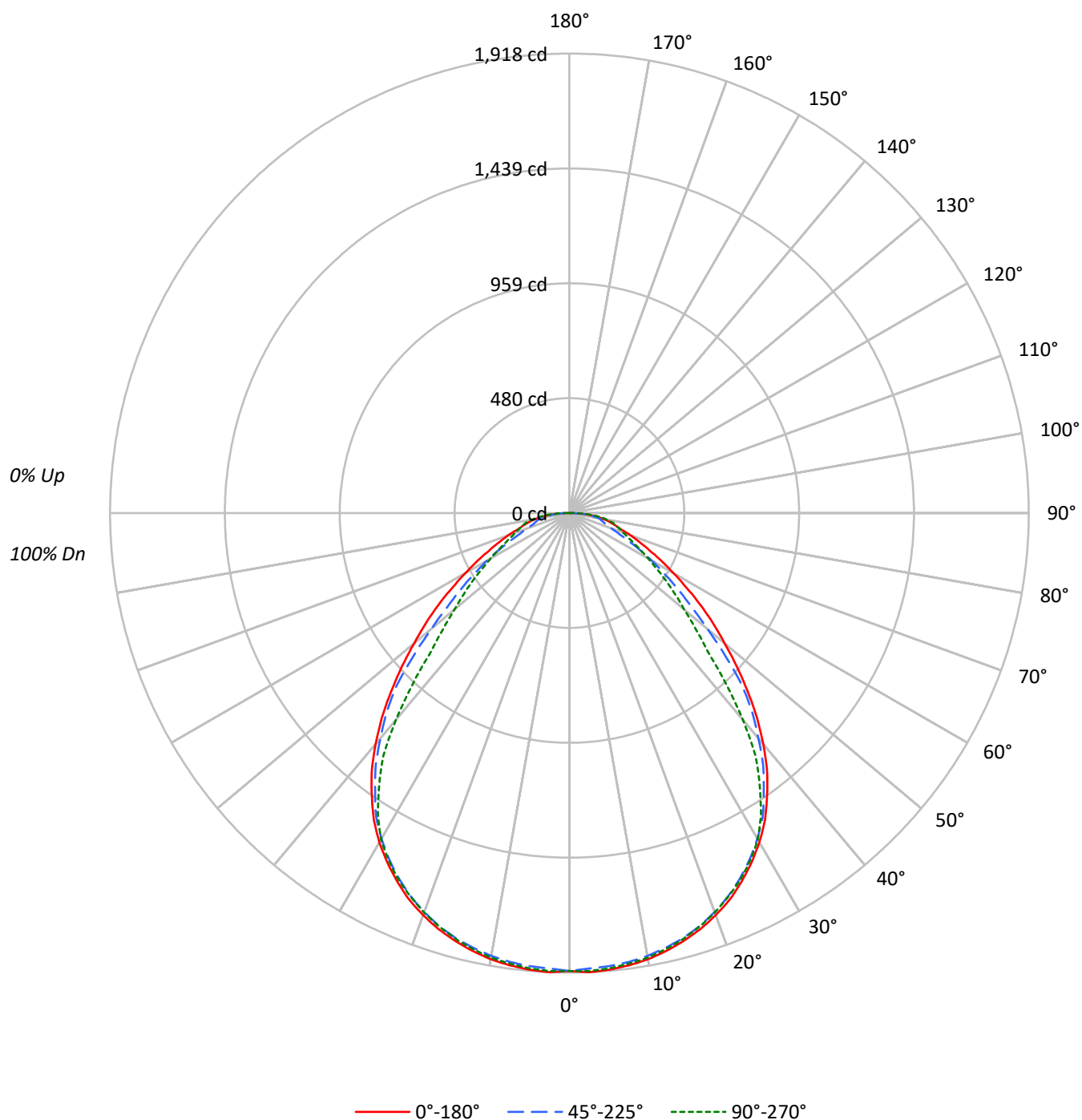
Input Watts (W): 38.223
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5144	5144	5144
5°	5169	5129	5153
10°	5168	5128	5149
15°	5149	5117	5125
20°	5115	5076	5082
25°	5047	5001	5015
30°	4931	4877	4889
35°	4728	4648	4549
40°	4421	4312	3956
45°	4002	3887	3103
50°	3540	3145	2616
55°	3132	2585	2307
60°	2704	2139	2045
65°	2351	1702	1881
70°	2126	1460	1881
75°	2041	1525	2101
80°	2273	1943	2455
85°	2399	2072	2939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	4.3
10°-20°	519.6	12.4
20°-30°	777.7	18.6
30°-40°	880.3	21.0
40°-50°	749.8	17.9
50°-60°	507.7	12.1
60°-70°	303.1	7.2
70°-80°	189.4	4.5
80°-90°	80.0	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°	1478.6	35.3
0°-40°	2358.9	56.3
0°-60°	3616.5	86.3
0°-90°	4189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4189.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1912	1912	1912	1912	1912	
5°	1914	1909	1899	1911	1908	182
15°	1848	1842	1837	1848	1840	521
25°	1700	1695	1684	1692	1689	782
35°	1439	1430	1415	1400	1385	897
45°	1052	1054	1021	871	815	811
55°	668	631	551	492	492	597
65°	369	308	267	286	295	372
75°	196	176	147	192	202	212
85°	78	72	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°	1911.6	1911.6	1911.6	1911.6	1911.6
2.5°	1918.4	1913.5	1902.8	1915.5	1913.5
5°	1913.5	1908.7	1898.9	1910.6	1907.7
7.5°	1903.8	1898.9	1890.2	1901.9	1897.0
10°	1891.2	1885.3	1876.6	1889.2	1884.4
12.5°	1871.7	1865.9	1858.1	1870.8	1864.0
15°	1848.4	1841.6	1836.7	1848.4	1839.7
17.5°	1820.2	1814.4	1807.6	1819.2	1809.5
20°	1786.2	1781.3	1772.6	1779.4	1774.5
22.5°	1747.3	1740.5	1731.8	1739.6	1732.8
25°	1699.7	1694.9	1684.2	1691.9	1689.0
27.5°	1645.3	1642.4	1629.7	1639.5	1634.6
30°	1587.0	1579.2	1569.5	1572.4	1573.4
32.5°	1519.9	1510.2	1502.4	1495.6	1488.8
35°	1439.3	1430.5	1415.0	1400.4	1384.8
37.5°	1355.7	1344.0	1328.5	1296.4	1277.0
40°	1258.5	1252.7	1227.4	1182.7	1126.3
42.5°	1159.4	1153.6	1131.2	1031.1	969.9
45°	1051.5	1054.4	1021.4	870.8	815.4
47.5°	948.5	956.3	884.4	743.4	714.3
50°	845.5	854.2	751.2	642.4	624.9
52.5°	755.1	748.3	640.4	563.7	555.9
55°	667.6	630.7	551.0	491.7	491.7
57.5°	578.2	525.8	468.4	430.5	430.5
60°	502.4	437.3	397.5	372.2	380.0
62.5°	432.5	363.5	329.4	324.6	334.3
65°	369.3	308.1	267.3	285.7	295.4
67.5°	317.8	263.4	219.6	258.5	264.3
70°	270.2	229.3	185.6	238.1	239.1
72.5°	226.4	202.1	159.4	215.7	219.6
75°	196.3	175.9	146.7	192.4	202.1
77.5°	172.0	150.6	135.1	166.2	184.6
80°	146.7	123.4	125.4	139.9	158.4
82.5°	112.7	95.2	99.1	114.7	129.3
85°	77.7	71.9	67.1	84.5	95.2
87.5°	41.8	38.9	34.0	47.6	48.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)