

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: P291235

Luminaire Tested: **14GR-LD5-43-A125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291235
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-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4167.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

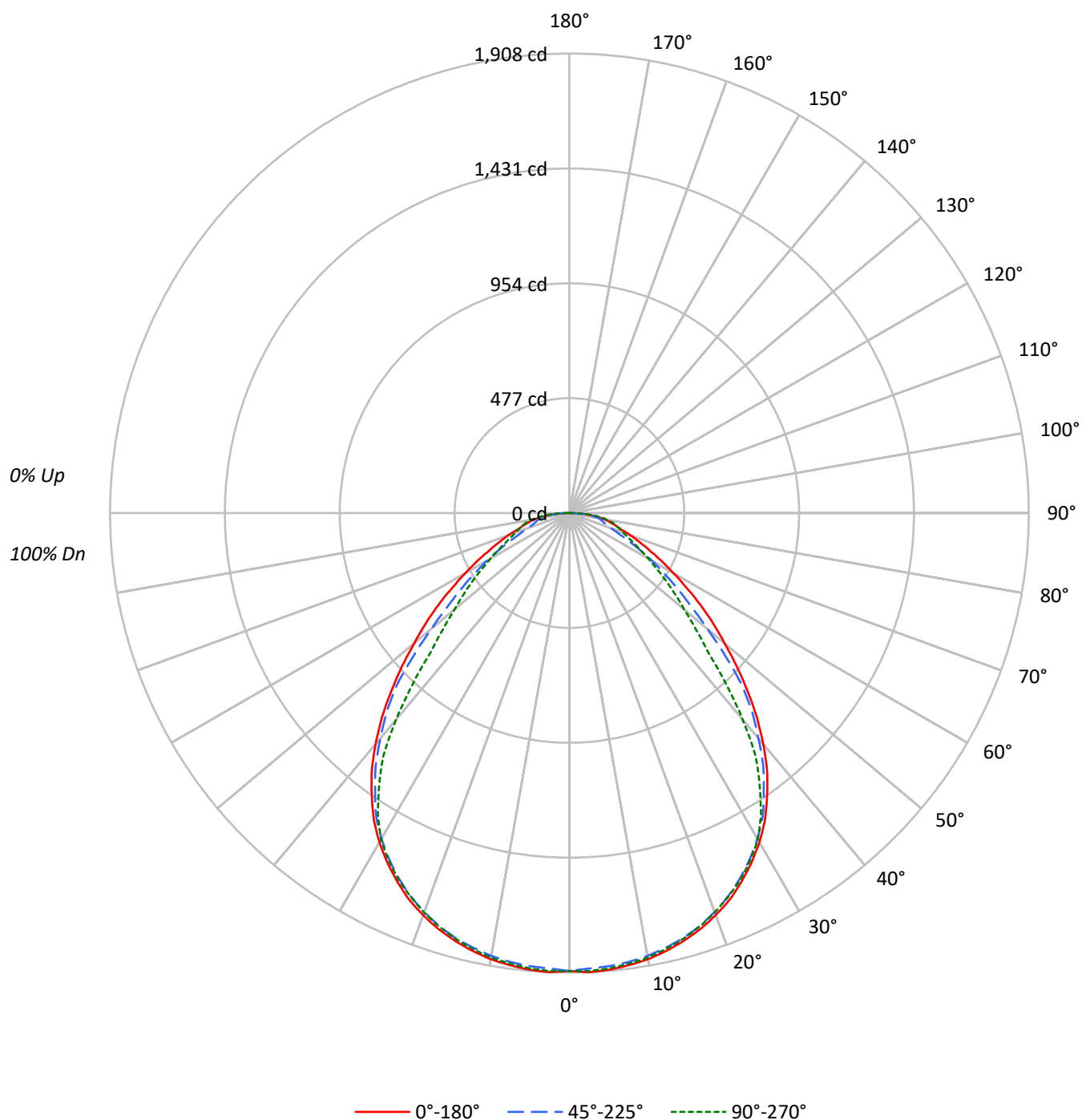
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5117	5117	5117
5°	5142	5103	5126
10°	5140	5101	5122
15°	5122	5090	5098
20°	5088	5050	5055
25°	5020	4974	4989
30°	4905	4851	4863
35°	4703	4624	4526
40°	4398	4289	3936
45°	3981	3867	3087
50°	3521	3129	2602
55°	3116	2571	2295
60°	2690	2128	2034
65°	2339	1692	1871
70°	2114	1452	1871
75°	2031	1518	2091
80°	2263	1932	2442
85°	2387	2059	2924



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	4.3
10°-20°	516.9	12.4
20°-30°	773.6	18.6
30°-40°	875.7	21.0
40°-50°	745.9	17.9
50°-60°	505.0	12.1
60°-70°	301.5	7.2
70°-80°	188.4	4.5
80°-90°	79.6	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°	1470.9	35.3
0°-40°	2346.5	56.3
0°-60°	3597.5	86.3
0°-90°	4167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4167.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1904	1899	1889	1901	1898	181
15°	1839	1832	1827	1839	1830	519
25°	1691	1686	1675	1683	1680	778
35°	1432	1423	1408	1393	1378	892
45°	1046	1049	1016	866	811	807
55°	664	627	548	489	489	594
65°	367	306	266	284	294	370
75°	195	175	146	191	201	211
85°	77	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°	1901.5	1901.5	1901.5	1901.5	1901.5
2.5°	1908.3	1903.5	1892.8	1905.4	1903.5
5°	1903.5	1898.6	1889.0	1900.6	1897.7
7.5°	1893.8	1889.0	1880.3	1891.9	1887.0
10°	1881.2	1875.4	1866.7	1879.3	1874.5
12.5°	1861.9	1856.1	1848.4	1860.9	1854.2
15°	1838.7	1831.9	1827.1	1838.7	1830.0
17.5°	1810.7	1804.9	1798.1	1809.7	1800.0
20°	1776.8	1772.0	1763.3	1770.1	1765.2
22.5°	1738.2	1731.4	1722.7	1730.4	1723.7
25°	1690.8	1686.0	1675.3	1683.1	1680.2
27.5°	1636.7	1633.8	1621.2	1630.9	1626.0
30°	1578.6	1570.9	1561.2	1564.1	1565.1
32.5°	1511.9	1502.3	1494.5	1487.8	1481.0
35°	1431.7	1423.0	1407.5	1393.0	1377.6
37.5°	1348.6	1337.0	1321.5	1289.6	1270.3
40°	1251.9	1246.1	1221.0	1176.5	1120.4
42.5°	1153.3	1147.5	1125.3	1025.7	964.8
45°	1046.0	1048.9	1016.0	866.2	811.1
47.5°	943.5	951.2	879.7	739.5	710.5
50°	841.0	849.7	747.3	639.0	621.6
52.5°	751.1	744.4	637.1	560.7	553.0
55°	664.1	627.4	548.1	489.2	489.2
57.5°	575.2	523.0	466.0	428.3	428.3
60°	499.8	435.0	395.4	370.3	378.0
62.5°	430.2	361.6	327.7	322.9	332.6
65°	367.4	306.4	265.8	284.2	293.9
67.5°	316.1	262.0	218.5	257.1	262.9
70°	268.7	228.1	184.6	236.8	237.8
72.5°	225.2	201.1	158.5	214.6	218.5
75°	195.3	175.0	146.0	191.4	201.1
77.5°	171.1	149.8	134.4	165.3	183.7
80°	146.0	122.8	124.7	139.2	157.6
82.5°	112.1	94.7	98.6	114.1	128.6
85°	77.3	71.5	66.7	84.1	94.7
87.5°	41.6	38.7	33.8	47.4	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)