

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: P291233

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291233
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-LD5-40-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325.0 lumens
Efficiency: N/A
Efficacy: 123.0 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

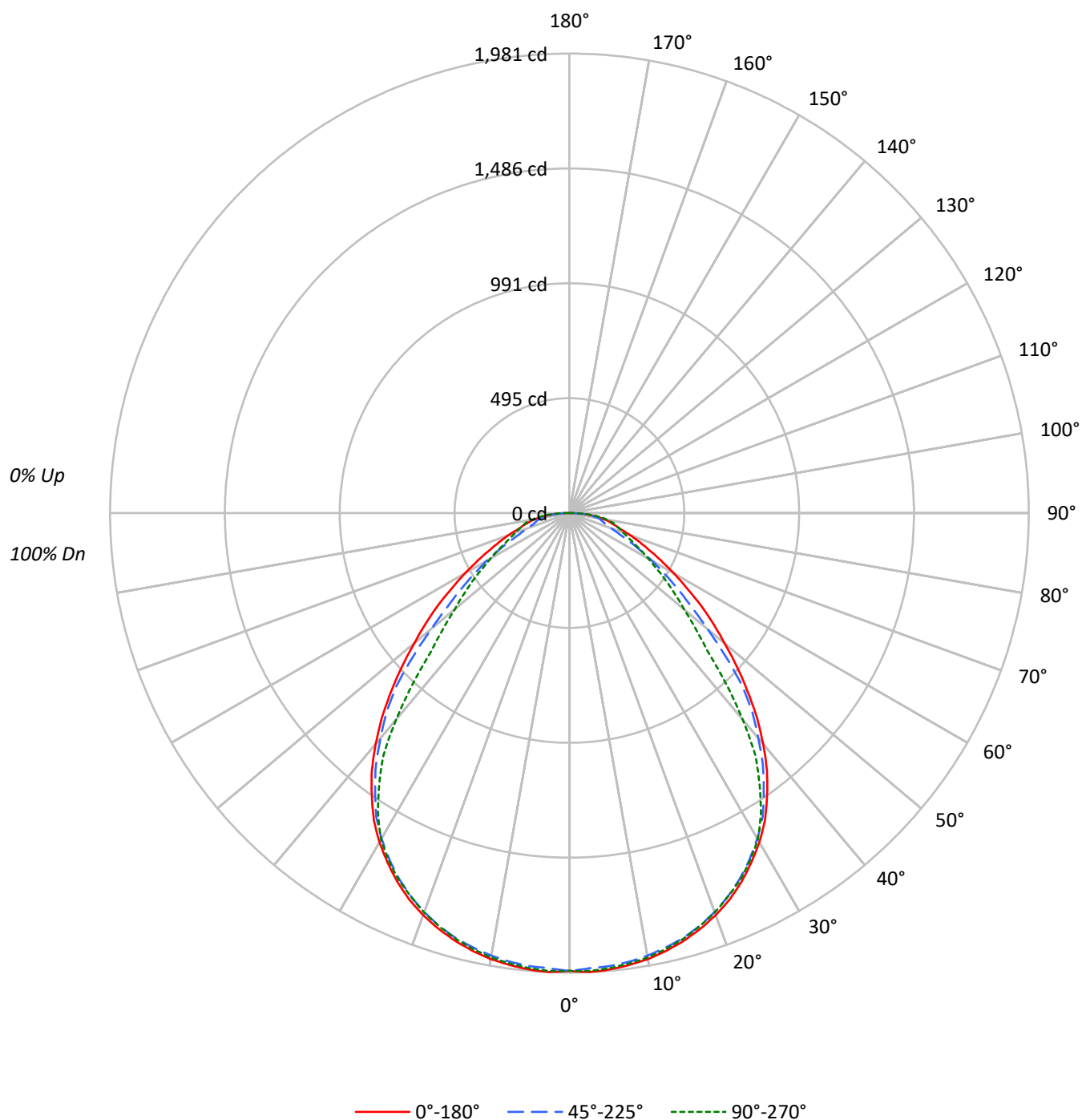
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5311	5311	5311
5°	5337	5296	5320
10°	5335	5294	5316
15°	5317	5283	5292
20°	5281	5241	5247
25°	5211	5163	5178
30°	5091	5035	5048
35°	4882	4799	4697
40°	4565	4452	4085
45°	4131	4013	3204
50°	3654	3247	2701
55°	3234	2669	2382
60°	2792	2209	2111
65°	2428	1757	1942
70°	2194	1507	1942
75°	2108	1575	2170
80°	2348	2005	2534
85°	2479	2137	3035



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	4.3
10°-20°	536.5	12.4
20°-30°	802.9	18.6
30°-40°	908.9	21.0
40°-50°	774.2	17.9
50°-60°	524.2	12.1
60°-70°	313.0	7.2
70°-80°	195.5	4.5
80°-90°	82.6	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°	1526.6	35.3
0°-40°	2435.5	56.3
0°-60°	3733.9	86.3
0°-90°	4325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1974	1974	1974	1974	1974	
5°	1976	1971	1961	1973	1970	188
15°	1908	1901	1896	1908	1899	538
25°	1755	1750	1739	1747	1744	807
35°	1486	1477	1461	1446	1430	926
45°	1086	1089	1054	899	842	837
55°	689	651	569	508	508	616
65°	381	318	276	295	305	384
75°	203	182	152	199	209	219
85°	80	74	69	87	98	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1973.6	1973.6	1973.6	1973.6	1973.6
2.5°	1980.7	1975.6	1964.6	1977.6	1975.6
5°	1975.6	1970.6	1960.6	1972.6	1969.6
7.5°	1965.6	1960.6	1951.6	1963.6	1958.6
10°	1952.6	1946.5	1937.5	1950.6	1945.5
12.5°	1932.5	1926.5	1918.4	1931.5	1924.5
15°	1908.4	1901.4	1896.4	1908.4	1899.4
17.5°	1879.3	1873.3	1866.3	1878.3	1868.3
20°	1844.2	1839.2	1830.2	1837.2	1832.2
22.5°	1804.1	1797.0	1788.0	1796.0	1789.0
25°	1754.9	1749.9	1738.8	1746.9	1743.9
27.5°	1698.7	1695.7	1682.7	1692.7	1687.7
30°	1638.5	1630.5	1620.4	1623.5	1624.5
32.5°	1569.3	1559.2	1551.2	1544.2	1537.2
35°	1486.0	1477.0	1460.9	1445.9	1429.8
37.5°	1399.7	1387.7	1371.6	1338.5	1318.4
40°	1299.4	1293.3	1267.3	1221.1	1162.9
42.5°	1197.0	1191.0	1167.9	1064.6	1001.4
45°	1085.6	1088.7	1054.5	899.0	841.8
47.5°	979.3	987.3	913.1	767.6	737.5
50°	872.9	882.0	775.6	663.2	645.2
52.5°	779.6	772.6	661.2	582.0	573.9
55°	689.3	651.2	568.9	507.7	507.7
57.5°	597.0	542.8	483.6	444.5	444.5
60°	518.7	451.5	410.4	384.3	392.3
62.5°	446.5	375.3	340.1	335.1	345.2
65°	381.3	318.1	275.9	295.0	305.0
67.5°	328.1	271.9	226.8	266.9	272.9
70°	278.9	236.8	191.6	245.8	246.8
72.5°	233.8	208.7	164.6	222.7	226.8
75°	202.7	181.6	151.5	198.7	208.7
77.5°	177.6	155.5	139.5	171.6	190.6
80°	151.5	127.4	129.4	144.5	163.5
82.5°	116.4	98.3	102.3	118.4	133.4
85°	80.3	74.2	69.2	87.3	98.3
87.5°	43.1	40.1	35.1	49.2	50.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)