

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: P291171

Luminaire Tested: **14GR-LD5-40-A125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291171
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-L83050-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 122.9 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

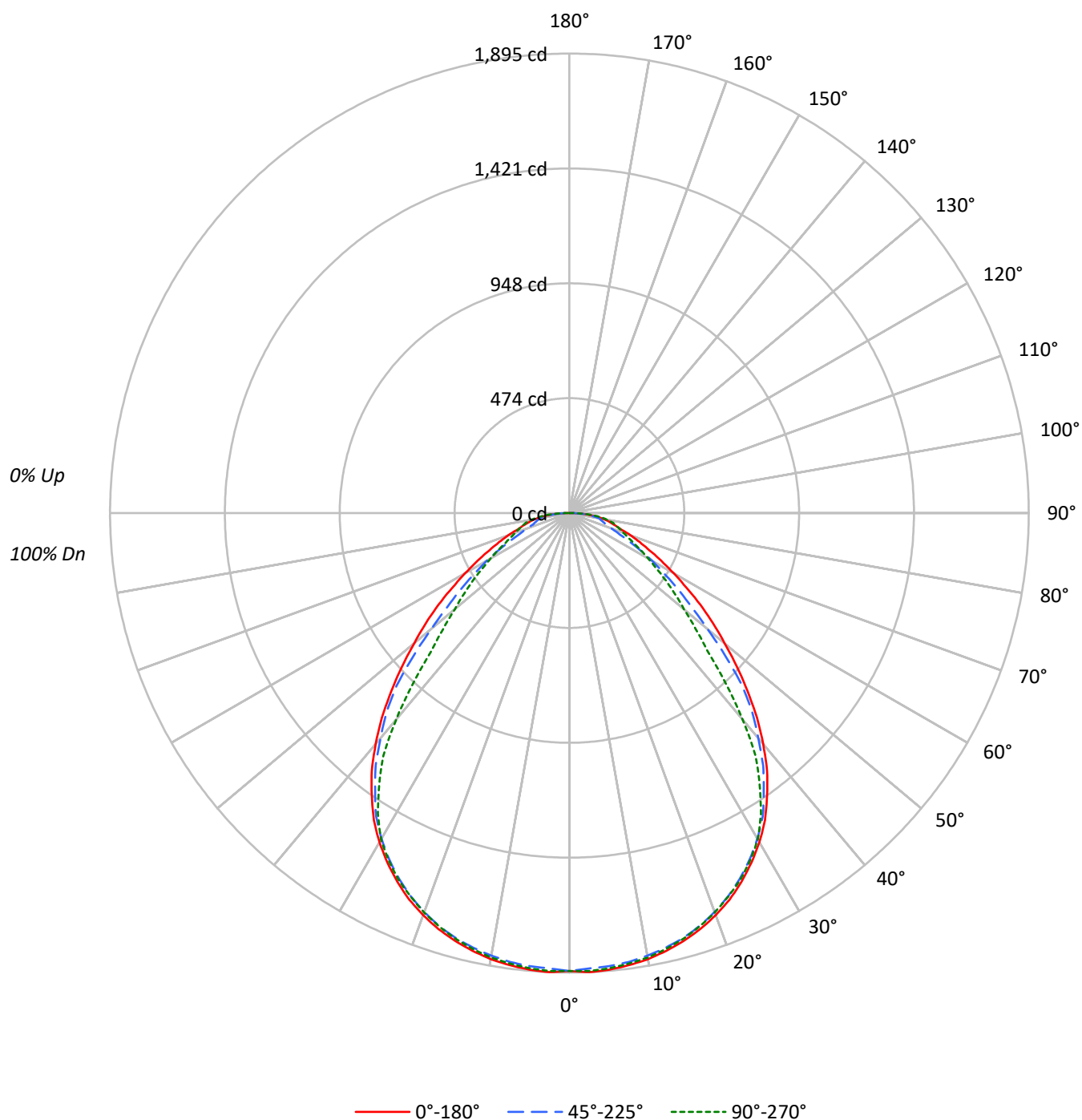
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5081	5081	5081
5°	5106	5067	5091
10°	5105	5065	5086
15°	5087	5055	5063
20°	5053	5014	5020
25°	4985	4940	4954
30°	4871	4818	4829
35°	4670	4592	4494
40°	4367	4259	3908
45°	3953	3839	3065
50°	3496	3107	2584
55°	3094	2554	2279
60°	2671	2113	2020
65°	2323	1681	1858
70°	2100	1443	1858
75°	2016	1508	2076
80°	2247	1918	2425
85°	2371	2044	2905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.1	4.3
10°-20°	513.3	12.4
20°-30°	768.2	18.6
30°-40°	869.6	21.0
40°-50°	740.7	17.9
50°-60°	501.5	12.1
60°-70°	299.4	7.2
70°-80°	187.1	4.5
80°-90°	79.1	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°	1460.6	35.3
0°-40°	2330.2	56.3
0°-60°	3572.4	86.3
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1888	1888	1888	1888	1888	
5°	1890	1885	1876	1887	1884	180
15°	1826	1819	1814	1826	1817	515
25°	1679	1674	1664	1671	1668	772
35°	1422	1413	1398	1383	1368	886
45°	1039	1042	1009	860	805	801
55°	660	623	544	486	486	590
65°	365	304	264	282	292	368
75°	194	174	145	190	200	209
85°	77	71	66	84	94	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1888.3	1888.3	1888.3	1888.3	1888.3
2.5°	1895.0	1890.2	1879.7	1892.1	1890.2
5°	1890.2	1885.4	1875.8	1887.3	1884.5
7.5°	1880.6	1875.8	1867.2	1878.7	1873.9
10°	1868.1	1862.4	1853.7	1866.2	1861.4
12.5°	1848.9	1843.2	1835.5	1848.0	1841.3
15°	1825.9	1819.2	1814.4	1825.9	1817.3
17.5°	1798.1	1792.3	1785.6	1797.1	1787.5
20°	1764.5	1759.7	1751.0	1757.7	1752.9
22.5°	1726.1	1719.3	1710.7	1718.4	1711.7
25°	1679.0	1674.2	1663.7	1671.3	1668.5
27.5°	1625.3	1622.4	1609.9	1619.5	1614.7
30°	1567.7	1560.0	1550.4	1553.3	1554.2
32.5°	1501.4	1491.8	1484.1	1477.4	1470.7
35°	1421.7	1413.1	1397.7	1383.3	1368.0
37.5°	1339.2	1327.7	1312.3	1280.6	1261.4
40°	1243.2	1237.4	1212.5	1168.3	1112.6
42.5°	1145.3	1139.5	1117.4	1018.5	958.1
45°	1038.7	1041.6	1008.9	860.2	805.4
47.5°	936.9	944.6	873.6	734.4	705.6
50°	835.2	843.8	742.1	634.6	617.3
52.5°	745.9	739.2	632.6	556.8	549.1
55°	659.5	623.0	544.3	485.8	485.8
57.5°	571.2	519.4	462.7	425.3	425.3
60°	496.3	432.0	392.6	367.7	375.4
62.5°	427.2	359.0	325.4	320.6	330.2
65°	364.8	304.3	264.0	282.2	291.8
67.5°	313.9	260.2	217.0	255.4	261.1
70°	266.9	226.6	183.4	235.2	236.2
72.5°	223.7	199.7	157.4	213.1	217.0
75°	193.9	173.8	145.0	190.1	199.7
77.5°	169.9	148.8	133.4	164.2	182.4
80°	145.0	121.9	123.8	138.2	156.5
82.5°	111.4	94.1	97.9	113.3	127.7
85°	76.8	71.0	66.2	83.5	94.1
87.5°	41.3	38.4	33.6	47.0	48.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)