

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: P291228

Luminaire Tested: **14GR-LD5-40-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291228
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4131.0 lumens
Efficiency: N/A
Efficacy: 121.4 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

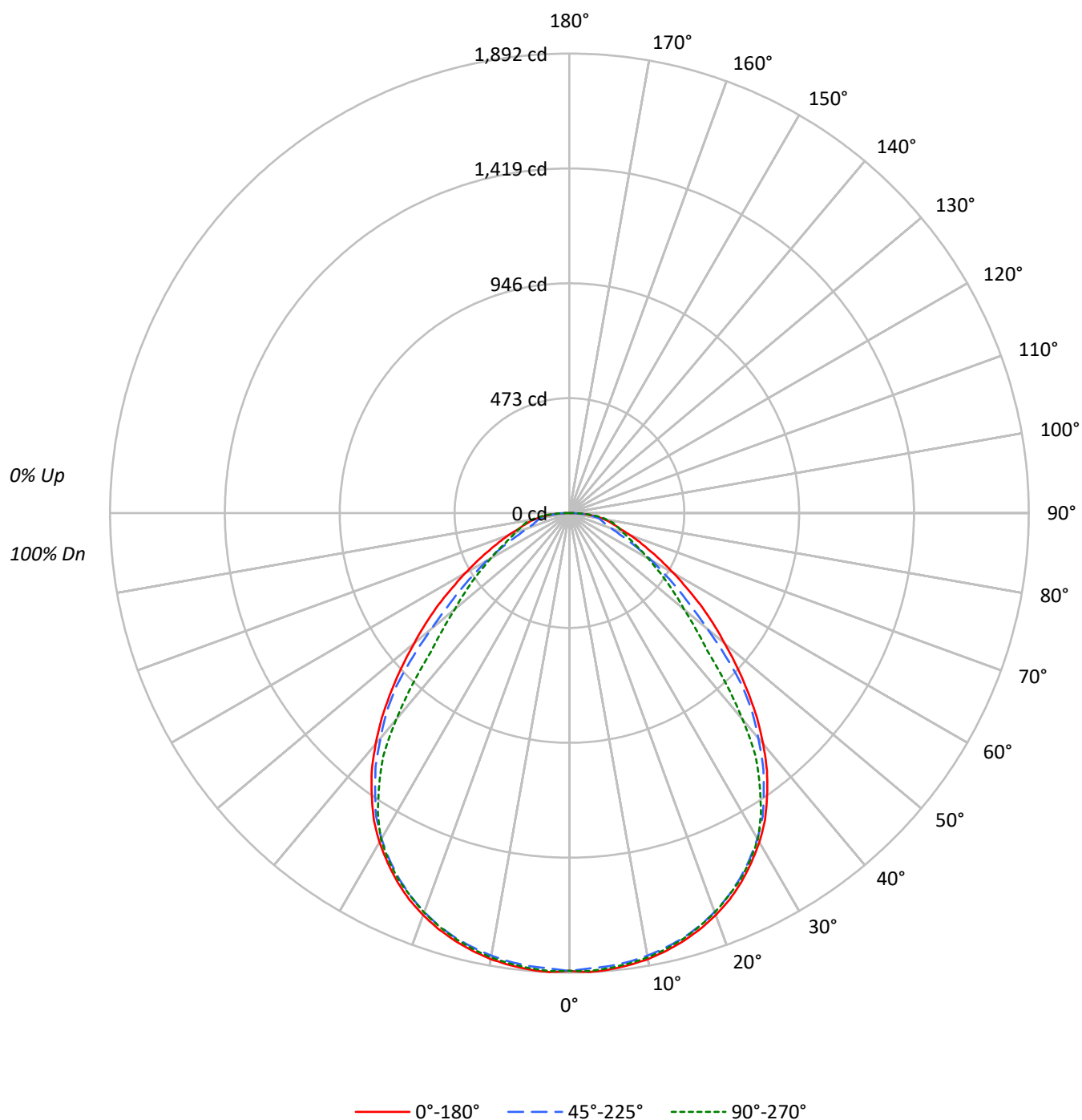
Input Watts (W): 34.038
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5073	5073	5073
5°	5097	5058	5082
10°	5096	5057	5078
15°	5078	5046	5054
20°	5044	5006	5011
25°	4977	4931	4945
30°	4863	4809	4821
35°	4663	4584	4486
40°	4360	4252	3902
45°	3946	3833	3060
50°	3491	3101	2580
55°	3089	2549	2275
60°	2667	2110	2017
65°	2319	1678	1855
70°	2096	1440	1855
75°	2013	1504	2072
80°	2242	1915	2421
85°	2368	2041	2899



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	4.3
10°-20°	512.4	12.4
20°-30°	766.9	18.6
30°-40°	868.1	21.0
40°-50°	739.4	17.9
50°-60°	500.7	12.1
60°-70°	298.9	7.2
70°-80°	186.8	4.5
80°-90°	78.9	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°	1458.1	35.3
0°-40°	2326.3	56.3
0°-60°	3566.4	86.3
0°-90°	4131.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4131.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1885	1885	1885	1885	1885	
5°	1887	1882	1873	1884	1881	179
15°	1823	1816	1811	1823	1814	514
25°	1676	1671	1661	1668	1666	771
35°	1419	1411	1395	1381	1366	885
45°	1037	1040	1007	859	804	800
55°	658	622	543	485	485	589
65°	364	304	264	282	291	367
75°	194	174	145	190	199	209
85°	77	71	66	83	94	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1885.1	1885.1	1885.1	1885.1	1885.1
2.5°	1891.8	1887.0	1876.5	1888.9	1887.0
5°	1887.0	1882.2	1872.6	1884.1	1881.3
7.5°	1877.4	1872.6	1864.0	1875.5	1870.7
10°	1865.0	1859.2	1850.6	1863.1	1858.3
12.5°	1845.8	1840.1	1832.4	1844.9	1838.1
15°	1822.8	1816.1	1811.3	1822.8	1814.2
17.5°	1795.0	1789.3	1782.6	1794.1	1784.5
20°	1761.5	1756.7	1748.1	1754.8	1750.0
22.5°	1723.1	1716.4	1707.8	1715.5	1708.8
25°	1676.2	1671.4	1660.8	1668.5	1665.6
27.5°	1622.5	1619.6	1607.2	1616.8	1612.0
30°	1565.0	1557.3	1547.8	1550.6	1551.6
32.5°	1498.9	1489.3	1481.6	1474.9	1468.2
35°	1419.3	1410.7	1395.4	1381.0	1365.7
37.5°	1336.9	1325.4	1310.1	1278.5	1259.3
40°	1241.1	1235.3	1210.4	1166.3	1110.7
42.5°	1143.3	1137.6	1115.5	1016.8	956.4
45°	1037.0	1039.8	1007.2	858.7	804.1
47.5°	935.4	943.0	872.1	733.1	704.4
50°	833.8	842.4	740.8	633.5	616.2
52.5°	744.7	737.9	631.6	555.9	548.2
55°	658.4	622.0	543.4	484.9	484.9
57.5°	570.2	518.5	461.9	424.6	424.6
60°	495.5	431.3	392.0	367.1	374.7
62.5°	426.5	358.4	324.9	320.1	329.7
65°	364.2	303.8	263.6	281.8	291.3
67.5°	313.4	259.7	216.6	254.9	260.7
70°	266.4	226.2	183.0	234.8	235.8
72.5°	223.3	199.3	157.2	212.8	216.6
75°	193.6	173.5	144.7	189.8	199.3
77.5°	169.6	148.5	133.2	163.9	182.1
80°	144.7	121.7	123.6	138.0	156.2
82.5°	111.2	93.9	97.8	113.1	127.5
85°	76.7	70.9	66.1	83.4	93.9
87.5°	41.2	38.3	33.5	47.0	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)