

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: P291526

Luminaire Tested: **14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291526
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

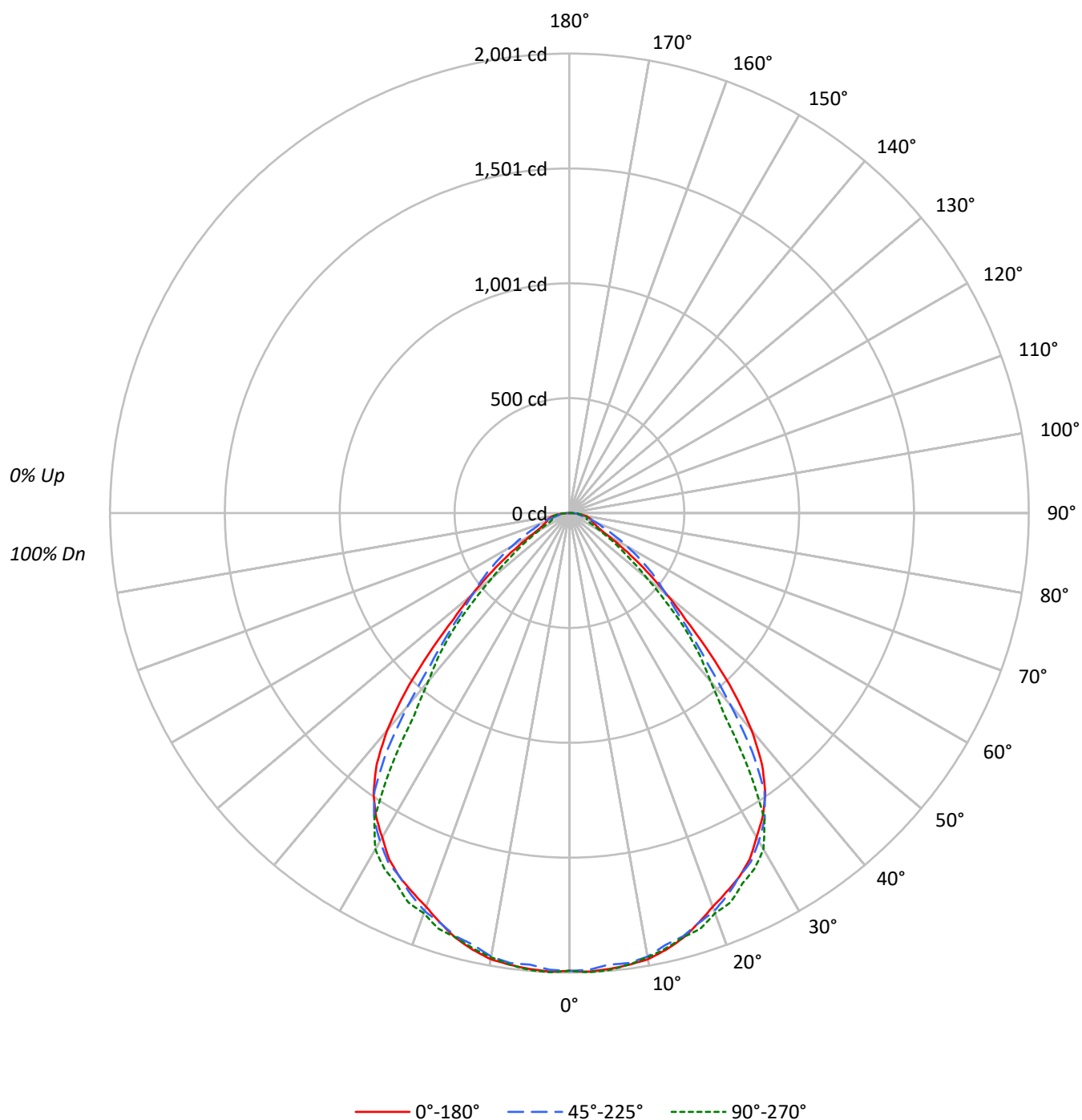
Input Watts (W): 34.689
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5365	5365	5365
5°	5383	5332	5394
10°	5391	5358	5368
15°	5336	5317	5329
20°	5225	5281	5311
25°	5193	5190	5290
30°	5067	5128	5253
35°	4886	4866	4471
40°	4338	3829	3352
45°	3292	2864	2711
50°	2335	2292	1840
55°	1598	1957	1264
60°	989	1561	845
65°	814	1202	612
70°	810	1046	628
75°	972	750	839
80°	1117	691	1051
85°	1059	1220	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	5.0
10°-20°	539.9	14.4
20°-30°	811.9	21.7
30°-40°	885.1	23.6
40°-50°	619.8	16.5
50°-60°	350.8	9.4
60°-70°	192.0	5.1
70°-80°	116.3	3.1
80°-90°	44.1	1.2
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°	1540.9	41.1
0°-40°	2426.0	64.7
0°-60°	3396.6	90.6
0°-90°	3749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1994	1994	1994	1994	1994	
5°	1993	1989	1974	1997	1997	190
15°	1916	1910	1909	1936	1913	539
25°	1749	1752	1748	1788	1782	803
35°	1487	1480	1481	1406	1361	916
45°	865	903	753	743	712	672
55°	341	408	417	414	270	311
65°	128	210	189	239	96	131
75°	94	135	72	142	81	97
85°	34	56	40	48	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1993.6	1993.6	1993.6	1993.6	1993.6
2.5°	1998.7	1996.1	1990.1	2002.2	2001.3
5°	1992.7	1989.3	1973.8	1997.0	1997.0
7.5°	1984.1	1975.6	1976.4	1989.3	1983.3
10°	1973.0	1958.4	1961.0	1964.4	1964.4
12.5°	1947.2	1933.5	1926.6	1937.8	1941.2
15°	1915.5	1910.3	1908.6	1936.1	1912.9
17.5°	1870.9	1882.0	1871.7	1894.0	1897.5
20°	1824.5	1846.0	1844.2	1859.7	1854.5
22.5°	1786.7	1800.5	1800.5	1819.4	1834.8
25°	1749.0	1752.4	1748.1	1788.5	1781.6
27.5°	1700.1	1697.5	1711.2	1731.8	1745.6
30°	1630.6	1631.4	1650.3	1677.8	1690.6
32.5°	1567.1	1559.3	1582.5	1594.5	1580.8
35°	1487.2	1480.4	1481.2	1405.7	1361.1
37.5°	1378.3	1384.3	1305.3	1167.1	1108.8
40°	1234.9	1246.9	1089.9	986.9	954.3
42.5°	1061.6	1065.0	893.4	859.9	838.5
45°	865.1	902.8	752.6	743.2	712.3
47.5°	685.7	756.1	630.8	636.8	563.0
50°	557.8	628.2	547.5	550.1	439.4
52.5°	441.1	509.8	483.2	475.4	345.0
55°	340.7	407.6	417.1	413.6	269.5
57.5°	250.6	322.7	350.1	363.0	207.7
60°	183.7	263.5	290.1	315.8	157.0
62.5°	145.9	228.3	237.7	275.5	121.9
65°	127.9	210.3	188.8	238.6	96.1
67.5°	114.1	200.0	153.6	211.1	84.1
70°	103.0	180.2	133.0	188.8	79.8
72.5°	103.0	157.9	104.7	167.3	80.7
75°	93.5	134.7	72.1	141.6	80.7
77.5°	83.2	115.0	54.1	115.0	75.5
80°	72.1	90.1	44.6	88.4	67.8
82.5°	53.2	67.8	38.6	66.1	54.9
85°	34.3	55.8	39.5	48.1	38.6
87.5°	16.3	28.3	24.9	24.0	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)