

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: P291535

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291535
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-LD5-43-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: 3999.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

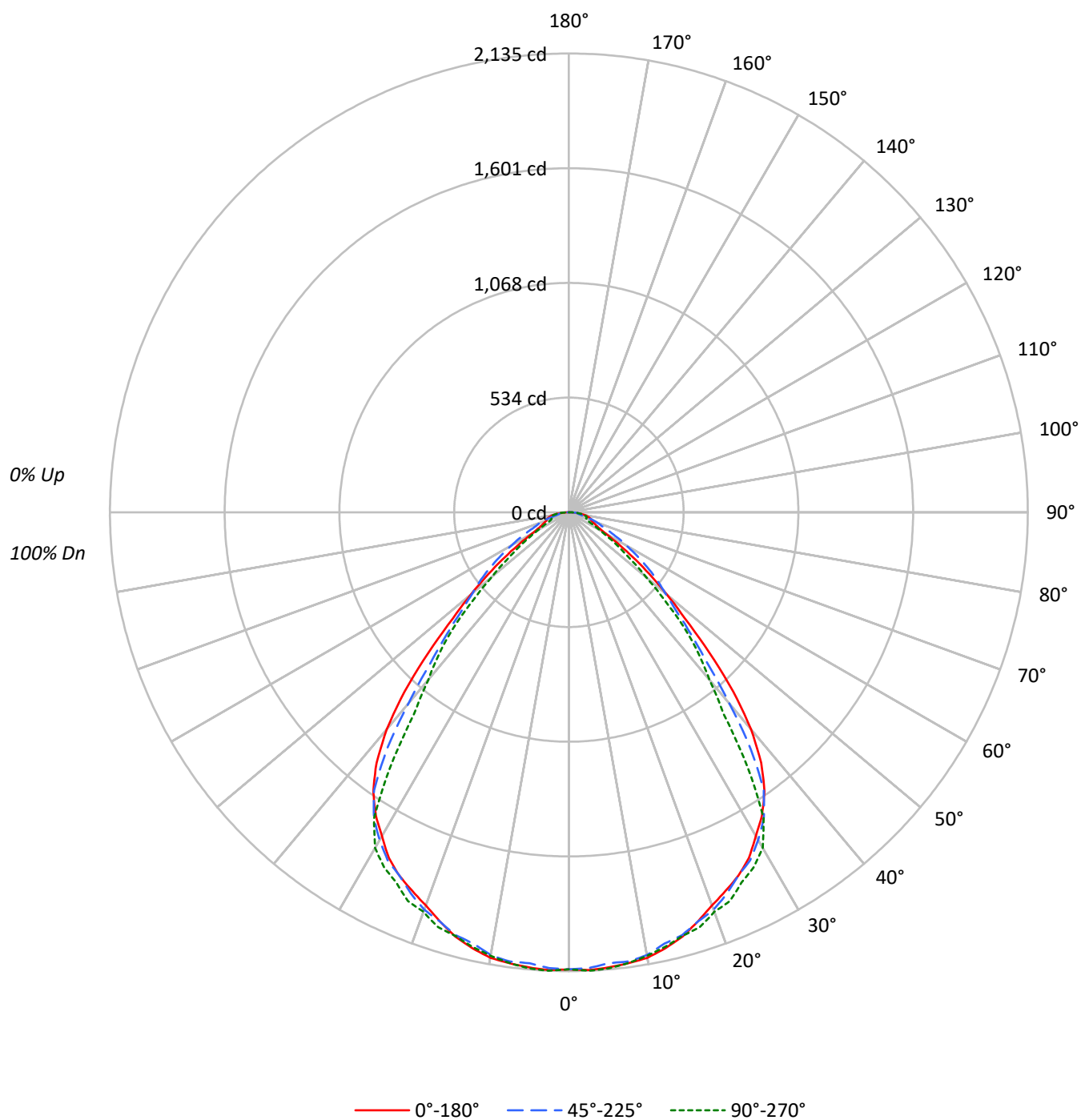
Input Watts (W): 37.665
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5722	5722	5722
5°	5742	5687	5754
10°	5751	5716	5726
15°	5692	5672	5685
20°	5573	5633	5665
25°	5539	5537	5643
30°	5404	5470	5604
35°	5211	5190	4770
40°	4627	4084	3576
45°	3511	3055	2892
50°	2491	2445	1962
55°	1705	2087	1348
60°	1054	1665	901
65°	869	1282	653
70°	864	1116	670
75°	1038	800	894
80°	1192	738	1120
85°	1130	1300	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	5.0
10°-20°	575.9	14.4
20°-30°	866.0	21.7
30°-40°	944.1	23.6
40°-50°	661.1	16.5
50°-60°	374.2	9.4
60°-70°	204.8	5.1
70°-80°	124.1	3.1
80°-90°	47.0	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°	1643.7	41.1
0°-40°	2587.8	64.7
0°-60°	3623.1	90.6
0°-90°	3999.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3999.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2126	2122	2106	2130	2130	202
15°	2043	2038	2036	2065	2040	575
25°	1866	1869	1865	1908	1900	857
35°	1586	1579	1580	1500	1452	978
45°	923	963	803	793	760	717
55°	363	435	445	441	287	332
65°	136	224	201	254	102	140
75°	100	144	77	151	86	103
85°	37	60	42	51	41	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.5	2126.5	2126.5	2126.5	2126.5
2.5°	2132.0	2129.3	2122.9	2135.7	2134.8
5°	2125.6	2121.9	2105.5	2130.2	2130.2
7.5°	2116.4	2107.3	2108.2	2121.9	2115.5
10°	2104.5	2089.0	2091.7	2095.4	2095.4
12.5°	2077.1	2062.4	2055.1	2067.0	2070.7
15°	2043.2	2037.7	2035.9	2065.2	2040.5
17.5°	1995.6	2007.5	1996.5	2020.3	2024.0
20°	1946.2	1969.1	1967.2	1983.7	1978.2
22.5°	1905.9	1920.5	1920.5	1940.7	1957.2
25°	1865.6	1869.3	1864.7	1907.7	1900.4
27.5°	1813.4	1810.7	1825.3	1847.3	1862.0
30°	1739.3	1740.2	1760.3	1789.6	1803.4
32.5°	1671.6	1663.3	1688.0	1700.8	1686.2
35°	1586.4	1579.1	1580.0	1499.5	1451.9
37.5°	1470.2	1476.6	1392.3	1245.0	1182.7
40°	1317.3	1330.1	1162.6	1052.7	1017.9
42.5°	1132.4	1136.0	952.9	917.2	894.4
45°	922.7	963.0	802.8	792.8	759.8
47.5°	731.4	806.5	672.8	679.2	600.5
50°	595.0	670.1	584.0	586.8	468.7
52.5°	470.5	543.8	515.4	507.1	368.0
55°	363.4	434.8	444.9	441.2	287.4
57.5°	267.3	344.2	373.5	387.2	221.5
60°	195.9	281.0	309.4	336.9	167.5
62.5°	155.6	243.5	253.6	293.8	130.0
65°	136.4	224.3	201.4	254.5	102.5
67.5°	121.8	213.3	163.9	225.2	89.7
70°	109.8	192.2	141.9	201.4	85.1
72.5°	109.8	168.4	111.7	178.5	86.0
75°	99.8	143.7	76.9	151.0	86.0
77.5°	88.8	122.7	57.7	122.7	80.6
80°	76.9	96.1	47.6	94.3	72.3
82.5°	56.8	72.3	41.2	70.5	58.6
85°	36.6	59.5	42.1	51.3	41.2
87.5°	17.4	30.2	26.5	25.6	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)