

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: P291533

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291533
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3921.0 lumens
Efficiency: N/A
Efficacy: 104.9 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

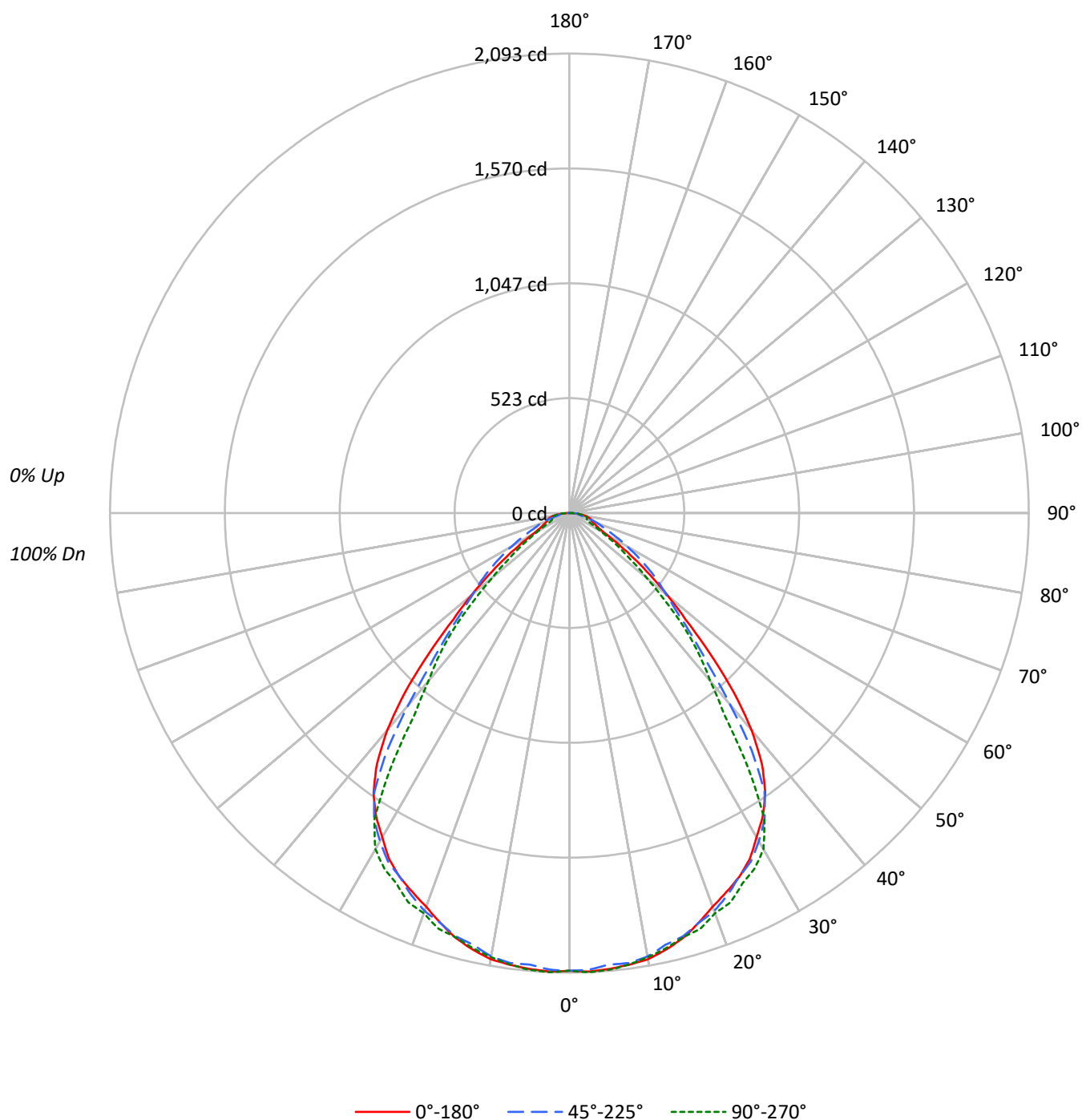
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5611	5611	5611
5°	5630	5576	5642
10°	5638	5604	5614
15°	5581	5561	5574
20°	5464	5524	5554
25°	5431	5429	5532
30°	5299	5363	5494
35°	5110	5089	4676
40°	4537	4004	3506
45°	3443	2996	2835
50°	2442	2397	1924
55°	1672	2046	1322
60°	1034	1633	884
65°	851	1258	640
70°	847	1094	657
75°	1017	784	878
80°	1168	724	1099
85°	1108	1275	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	5.0
10°-20°	564.7	14.4
20°-30°	849.1	21.7
30°-40°	925.7	23.6
40°-50°	648.2	16.5
50°-60°	366.9	9.4
60°-70°	200.8	5.1
70°-80°	121.7	3.1
80°-90°	46.1	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°	1611.6	41.1
0°-40°	2537.3	64.7
0°-60°	3552.4	90.6
0°-90°	3921.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3921.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2085	2085	2085	2085	2085	
5°	2084	2080	2064	2089	2089	198
15°	2003	1998	1996	2025	2001	563
25°	1829	1833	1828	1870	1863	840
35°	1556	1548	1549	1470	1424	958
45°	905	944	787	777	745	703
55°	356	426	436	433	282	326
65°	134	220	198	250	100	137
75°	98	141	75	148	84	101
85°	36	58	41	50	40	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2085.0	2085.0	2085.0	2085.0	2085.0
2.5°	2090.4	2087.7	2081.4	2094.0	2093.1
5°	2084.1	2080.5	2064.4	2088.6	2088.6
7.5°	2075.2	2066.2	2067.1	2080.5	2074.3
10°	2063.5	2048.2	2050.9	2054.5	2054.5
12.5°	2036.6	2022.2	2015.0	2026.7	2030.3
15°	2003.4	1998.0	1996.2	2024.9	2000.7
17.5°	1956.7	1968.4	1957.6	1980.9	1984.5
20°	1908.2	1930.7	1928.9	1945.0	1939.6
22.5°	1868.7	1883.1	1883.1	1902.8	1919.0
25°	1829.2	1832.8	1828.3	1870.5	1863.3
27.5°	1778.1	1775.4	1789.7	1811.3	1825.6
30°	1705.4	1706.3	1726.0	1754.7	1768.2
32.5°	1638.9	1630.9	1655.1	1667.7	1653.3
35°	1555.5	1548.3	1549.2	1470.2	1423.5
37.5°	1441.5	1447.8	1365.2	1220.7	1159.6
40°	1291.6	1304.2	1139.9	1032.2	998.1
42.5°	1110.3	1113.9	934.4	899.4	876.9
45°	904.7	944.2	787.2	777.3	745.0
47.5°	717.2	790.8	659.7	666.0	588.8
50°	583.4	657.0	572.6	575.3	459.6
52.5°	461.3	533.2	505.3	497.2	360.8
55°	356.3	426.3	436.2	432.6	281.8
57.5°	262.1	337.5	366.2	379.7	217.2
60°	192.1	275.6	303.4	330.3	164.3
62.5°	152.6	238.8	248.6	288.1	127.5
65°	133.7	219.9	197.5	249.5	100.5
67.5°	119.4	209.1	160.7	220.8	88.0
70°	107.7	188.5	139.1	197.5	83.5
72.5°	107.7	165.2	109.5	175.0	84.4
75°	97.8	140.9	75.4	148.1	84.4
77.5°	87.1	120.3	56.5	120.3	79.0
80°	75.4	94.2	46.7	92.4	70.9
82.5°	55.6	70.9	40.4	69.1	57.4
85°	35.9	58.3	41.3	50.3	40.4
87.5°	17.1	29.6	26.0	25.1	20.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)