

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: P292606

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A19/156-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3934.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

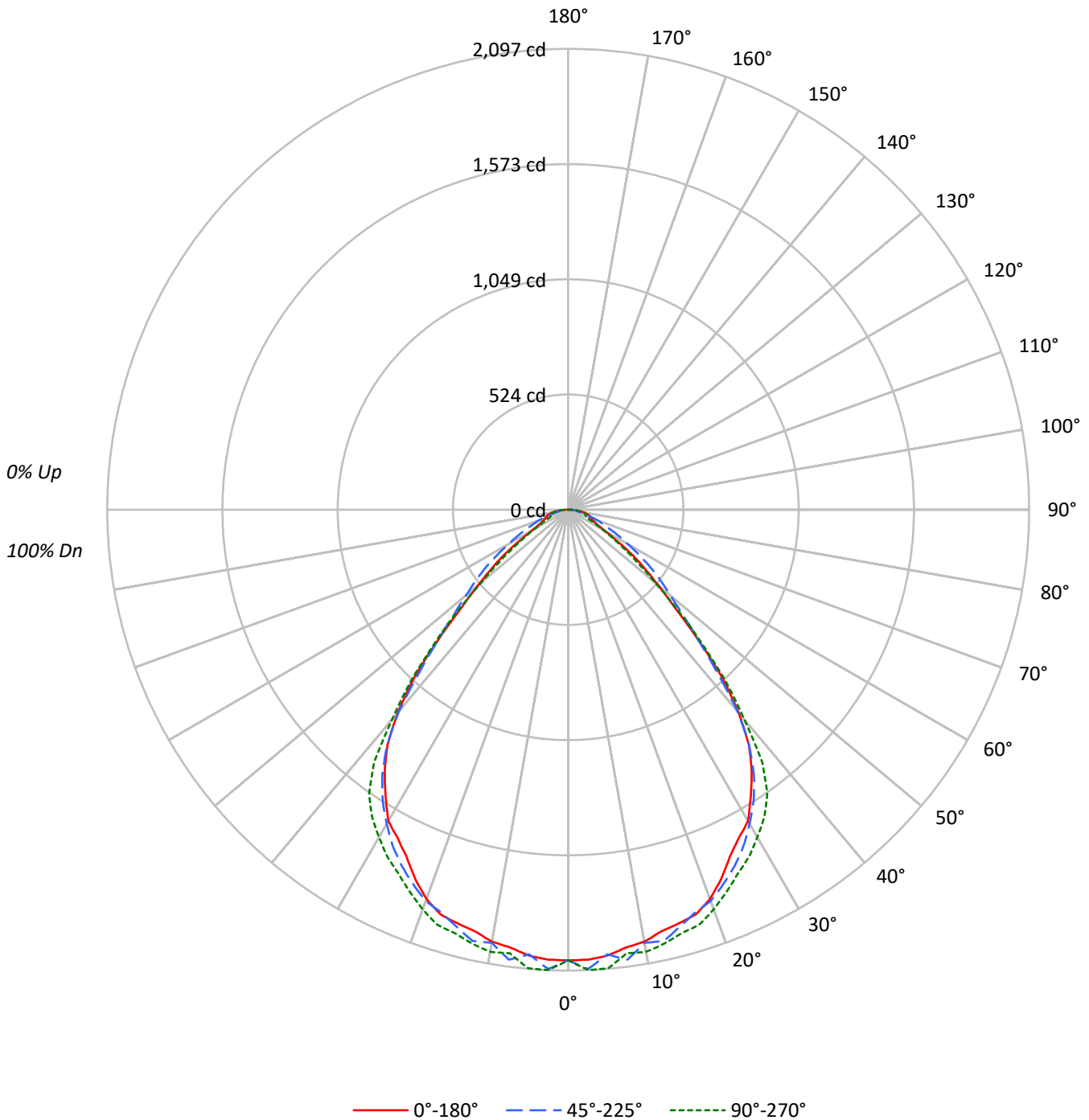
Input Watts (W): 35.154
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5517	5517	5517
5°	5503	5486	5659
10°	5453	5468	5582
15°	5428	5469	5557
20°	5399	5426	5542
25°	5168	5314	5424
30°	5084	5129	5348
35°	4780	4842	5185
40°	4236	4207	4373
45°	3164	3171	3260
50°	2227	2534	2158
55°	1644	2139	1474
60°	1027	1691	963
65°	838	1340	673
70°	832	1116	663
75°	1031	819	858
80°	1150	646	1049
85°	1145	1201	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	5.0
10°-20°	555.9	14.1
20°-30°	823.4	20.9
30°-40°	922.3	23.4
40°-50°	677.7	17.2
50°-60°	378.8	9.6
60°-70°	211.1	5.4
70°-80°	124.1	3.2
80°-90°	45.6	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°	1574.5	40.0
0°-40°	2496.8	63.5
0°-60°	3553.3	90.3
0°-90°	3934.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3934.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2050	2050	2050	2050	2050	
5°	2037	2075	2031	2072	2095	193
15°	1948	1960	1963	1993	1995	550
25°	1741	1755	1790	1815	1827	807
35°	1455	1456	1474	1540	1578	902
45°	831	899	833	893	856	650
55°	350	426	456	455	314	313
65°	132	234	210	270	106	136
75°	99	140	79	158	82	100
85°	37	55	39	50	38	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2050.3	2050.3	2050.3	2050.3	2050.3
2.5°	2049.4	2067.9	2092.0	2094.8	2096.6
5°	2037.3	2075.3	2030.8	2072.5	2094.8
7.5°	2009.5	2032.7	2065.1	2023.4	2035.5
10°	1995.6	2001.2	2001.2	2053.1	2042.9
12.5°	1964.1	2001.2	2010.4	2000.2	2022.5
15°	1948.3	1960.4	1963.2	1992.8	1994.7
17.5°	1930.7	1927.9	1921.5	1942.8	1980.8
20°	1885.3	1875.1	1894.6	1920.5	1935.4
22.5°	1818.6	1821.3	1844.5	1865.8	1882.5
25°	1740.7	1754.6	1789.8	1814.9	1826.9
27.5°	1682.3	1702.7	1726.8	1756.5	1780.6
30°	1636.0	1634.1	1650.8	1693.4	1721.2
32.5°	1546.1	1552.5	1570.2	1621.1	1660.1
35°	1455.2	1456.2	1473.8	1540.5	1578.5
37.5°	1350.5	1343.1	1353.3	1425.6	1450.6
40°	1205.9	1207.7	1197.5	1248.5	1244.8
42.5°	1037.2	1052.0	999.2	1065.9	1061.3
45°	831.4	899.1	833.3	892.6	856.5
47.5°	656.2	756.3	701.7	745.2	677.6
50°	532.0	634.9	605.3	624.7	515.4
52.5°	436.6	520.0	529.3	533.9	402.3
55°	350.4	426.4	456.0	455.1	314.2
57.5°	258.6	346.7	381.0	394.9	238.2
60°	190.9	288.3	314.2	344.8	178.9
62.5°	153.9	253.0	259.5	302.2	136.3
65°	131.6	233.6	210.4	269.7	105.7
67.5°	116.8	217.8	171.5	241.0	89.9
70°	105.7	193.7	141.8	216.0	84.3
72.5°	102.9	165.0	109.4	192.8	83.4
75°	99.2	140.0	78.8	158.5	82.5
77.5°	85.3	119.6	56.5	122.4	76.9
80°	74.2	95.5	41.7	91.8	67.7
82.5°	57.5	72.3	37.1	69.5	54.7
85°	37.1	54.7	38.9	50.1	38.0
87.5°	17.6	30.6	27.8	26.9	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)