

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: P292604

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292604
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-LD5-40-A19/156-UNV-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 125.7 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

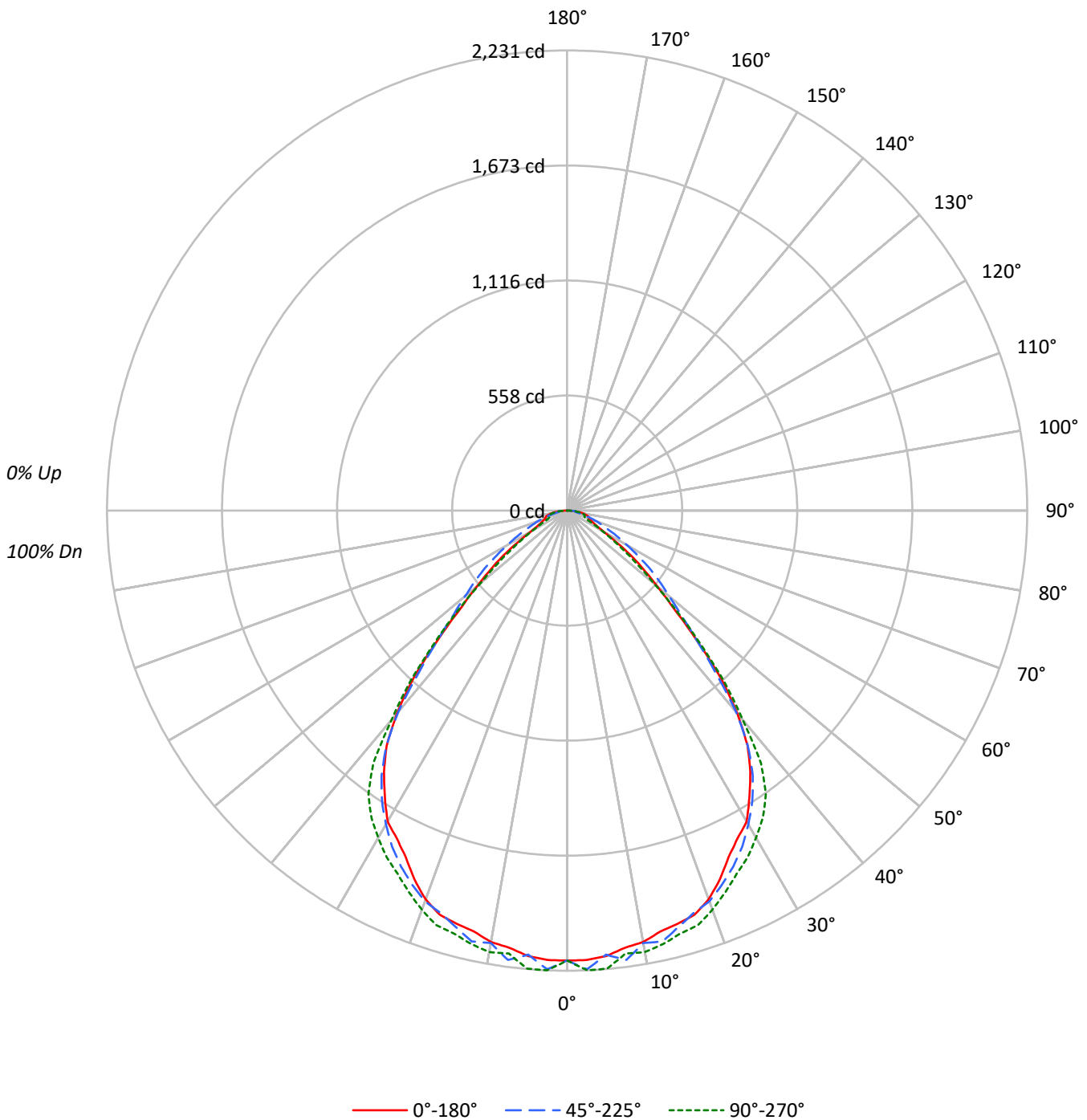
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5871	5871	5871
5°	5856	5837	6021
10°	5802	5819	5940
15°	5775	5819	5913
20°	5745	5773	5897
25°	5499	5655	5772
30°	5409	5458	5691
35°	5087	5152	5518
40°	4507	4476	4653
45°	3367	3374	3468
50°	2370	2696	2296
55°	1749	2276	1568
60°	1094	1799	1024
65°	892	1426	716
70°	884	1187	707
75°	1097	871	913
80°	1223	688	1116
85°	1220	1278	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.7	5.0
10°-20°	591.5	14.1
20°-30°	876.1	20.9
30°-40°	981.4	23.4
40°-50°	721.1	17.2
50°-60°	403.1	9.6
60°-70°	224.6	5.4
70°-80°	132.0	3.2
80°-90°	48.5	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°	1675.3	40.0
0°-40°	2656.7	63.5
0°-60°	3780.9	90.3
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2182	2182	2182	2182	2182	
5°	2168	2208	2161	2205	2229	205
15°	2073	2086	2089	2120	2122	586
25°	1852	1867	1904	1931	1944	858
35°	1548	1549	1568	1639	1680	959
45°	885	957	887	950	911	691
55°	373	454	485	484	334	333
65°	140	248	224	287	112	145
75°	106	149	84	169	88	106
85°	40	58	41	53	40	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2181.6	2181.6	2181.6	2181.6	2181.6
2.5°	2180.6	2200.4	2226.0	2229.0	2230.9
5°	2167.8	2208.3	2160.9	2205.3	2229.0
7.5°	2138.2	2162.9	2197.4	2153.0	2165.8
10°	2123.4	2129.4	2129.4	2184.6	2173.7
12.5°	2089.9	2129.4	2139.2	2128.4	2152.0
15°	2073.1	2086.0	2088.9	2120.5	2122.5
17.5°	2054.4	2051.4	2044.5	2067.2	2107.7
20°	2006.1	1995.2	2015.9	2043.5	2059.3
22.5°	1935.1	1938.0	1962.7	1985.4	2003.1
25°	1852.2	1867.0	1904.5	1931.1	1943.9
27.5°	1790.1	1811.8	1837.4	1869.0	1894.6
30°	1740.8	1738.8	1756.5	1801.9	1831.5
32.5°	1645.1	1652.0	1670.7	1725.0	1766.4
35°	1548.4	1549.4	1568.2	1639.2	1679.6
37.5°	1437.0	1429.1	1440.0	1516.9	1543.5
40°	1283.1	1285.1	1274.3	1328.5	1324.6
42.5°	1103.6	1119.4	1063.2	1134.2	1129.3
45°	884.7	956.7	886.7	949.8	911.3
47.5°	698.3	804.8	746.6	793.0	721.0
50°	566.1	675.6	644.0	664.7	548.4
52.5°	464.5	553.3	563.2	568.1	428.0
55°	372.8	453.7	485.2	484.3	334.3
57.5°	275.2	368.9	405.4	420.2	253.5
60°	203.2	306.7	334.3	366.9	190.3
62.5°	163.7	269.3	276.2	321.5	145.0
65°	140.1	248.5	223.9	287.0	112.4
67.5°	124.3	231.8	182.5	256.4	95.7
70°	112.4	206.1	150.9	229.8	89.8
72.5°	109.5	175.6	116.4	205.1	88.8
75°	105.5	148.9	83.8	168.7	87.8
77.5°	90.7	127.2	60.2	130.2	81.9
80°	78.9	101.6	44.4	97.6	72.0
82.5°	61.1	76.9	39.5	74.0	58.2
85°	39.5	58.2	41.4	53.3	40.4
87.5°	18.7	32.5	29.6	28.6	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)