

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: P292712

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292712
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4069.0 lumens
Efficiency: N/A
Efficacy: 110.5 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

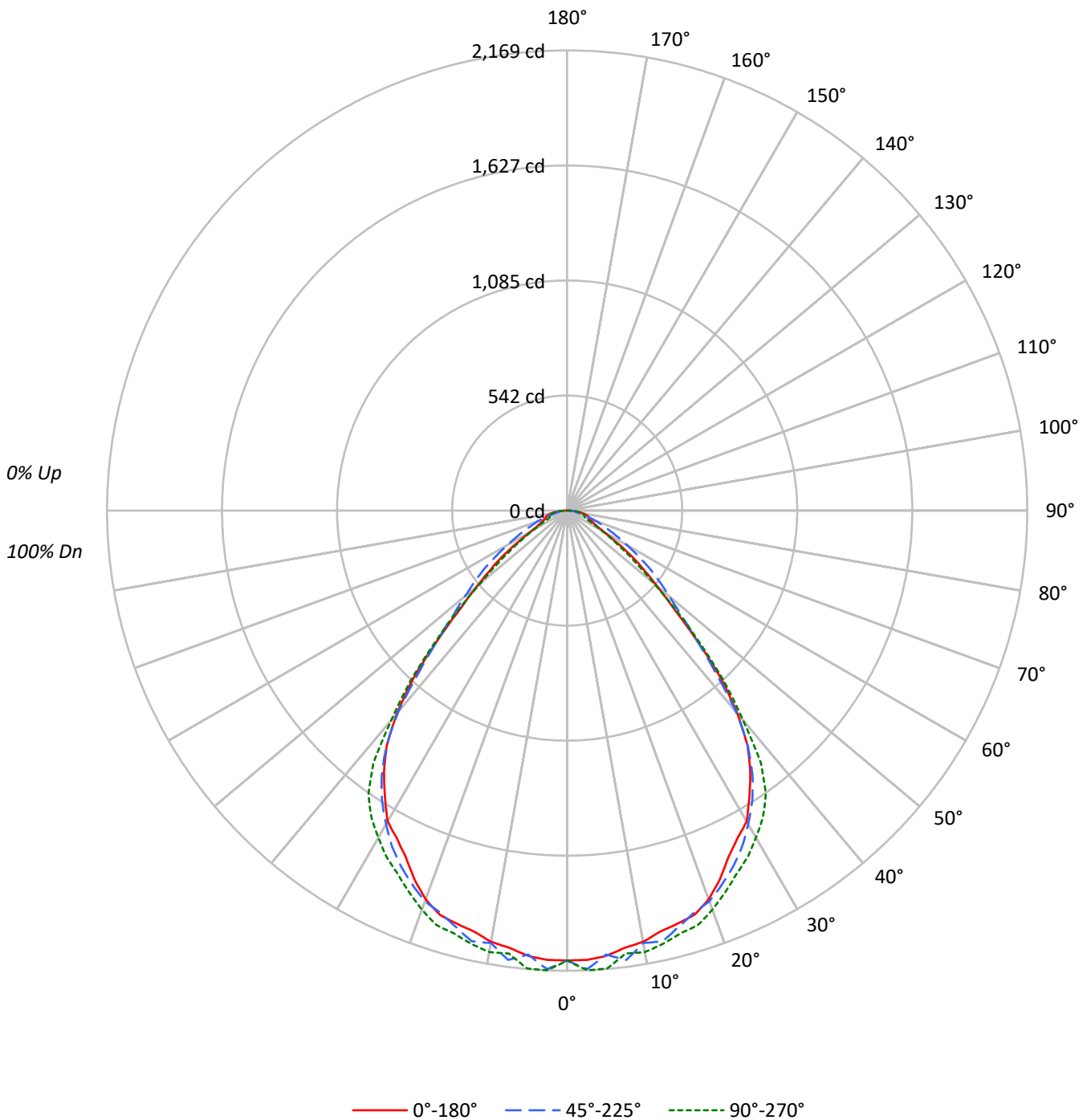
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292712

CATALOG NUMBER: 22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292712

CATALOG NUMBER: 22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-6500K

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°	5706	5706	5706
5°	5692	5674	5853
10°	5640	5656	5774
15°	5614	5657	5748
20°	5584	5612	5733
25°	5346	5497	5611
30°	5258	5305	5532
35°	4945	5007	5364
40°	4382	4351	4523
45°	3273	3280	3371
50°	2304	2621	2231
55°	1700	2213	1525
60°	1063	1749	996
65°	867	1386	696
70°	860	1154	686
75°	1067	847	887
80°	1189	668	1085
85°	1183	1244	1213



TEST NUMBER: P292712

CATALOG NUMBER: 22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.9	5.0
10°-20°	575.0	14.1
20°-30°	851.6	20.9
30°-40°	953.9	23.4
40°-50°	700.9	17.2
50°-60°	391.8	9.6
60°-70°	218.4	5.4
70°-80°	128.3	3.2
80°-90°	47.2	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°	1628.5	40.0
0°-40°	2582.4	63.5
0°-60°	3675.2	90.3
0°-90°	4069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2121	2121	2121	2121	2121	
5°	2107	2146	2100	2144	2167	199
15°	2015	2028	2030	2061	2063	569
25°	1800	1815	1851	1877	1890	834
35°	1505	1506	1524	1593	1633	932
45°	860	930	862	923	886	672
55°	362	441	472	471	325	323
65°	136	242	218	279	109	141
75°	103	145	82	164	85	103
85°	38	57	40	52	39	42
90°	0	0	0	0	0	



TEST NUMBER: P292712

CATALOG NUMBER: 22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2120.6	2120.6	2120.6	2120.6	2120.6
2.5°	2119.7	2138.9	2163.8	2166.7	2168.6
5°	2107.2	2146.5	2100.5	2143.7	2166.7
7.5°	2078.5	2102.4	2136.0	2092.8	2105.3
10°	2064.1	2069.8	2069.8	2123.5	2113.0
12.5°	2031.5	2069.8	2079.4	2068.9	2091.9
15°	2015.2	2027.7	2030.5	2061.2	2063.1
17.5°	1997.0	1994.1	1987.4	2009.4	2048.7
20°	1950.0	1939.5	1959.6	1986.4	2001.8
22.5°	1881.0	1883.9	1907.8	1929.9	1947.1
25°	1800.4	1814.8	1851.3	1877.1	1889.6
27.5°	1740.0	1761.1	1786.1	1816.7	1841.7
30°	1692.1	1690.2	1707.4	1751.5	1780.3
32.5°	1599.1	1605.8	1624.0	1676.8	1717.0
35°	1505.2	1506.1	1524.3	1593.4	1632.7
37.5°	1396.8	1389.2	1399.7	1474.5	1500.4
40°	1247.3	1249.2	1238.6	1291.4	1287.5
42.5°	1072.8	1088.1	1033.5	1102.5	1097.7
45°	860.0	929.9	861.9	923.2	885.8
47.5°	678.8	782.3	725.7	770.8	700.8
50°	550.3	656.7	626.0	646.2	533.0
52.5°	451.5	537.8	547.4	552.2	416.1
55°	362.4	441.0	471.7	470.7	325.0
57.5°	267.5	358.6	394.0	408.4	246.4
60°	197.5	298.2	325.0	356.6	185.0
62.5°	159.1	261.7	268.4	312.5	140.9
65°	136.1	241.6	217.6	279.0	109.3
67.5°	120.8	225.3	177.4	249.3	93.0
70°	109.3	200.4	146.7	223.4	87.2
72.5°	106.4	170.6	113.1	199.4	86.3
75°	102.6	144.8	81.5	163.9	85.3
77.5°	88.2	123.7	58.5	126.5	79.6
80°	76.7	98.7	43.1	94.9	70.0
82.5°	59.4	74.8	38.3	71.9	56.6
85°	38.3	56.6	40.3	51.8	39.3
87.5°	18.2	31.6	28.8	27.8	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)