

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: P292591

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292591
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-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3556.0 lumens
Efficiency: N/A
Efficacy: 125.0 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

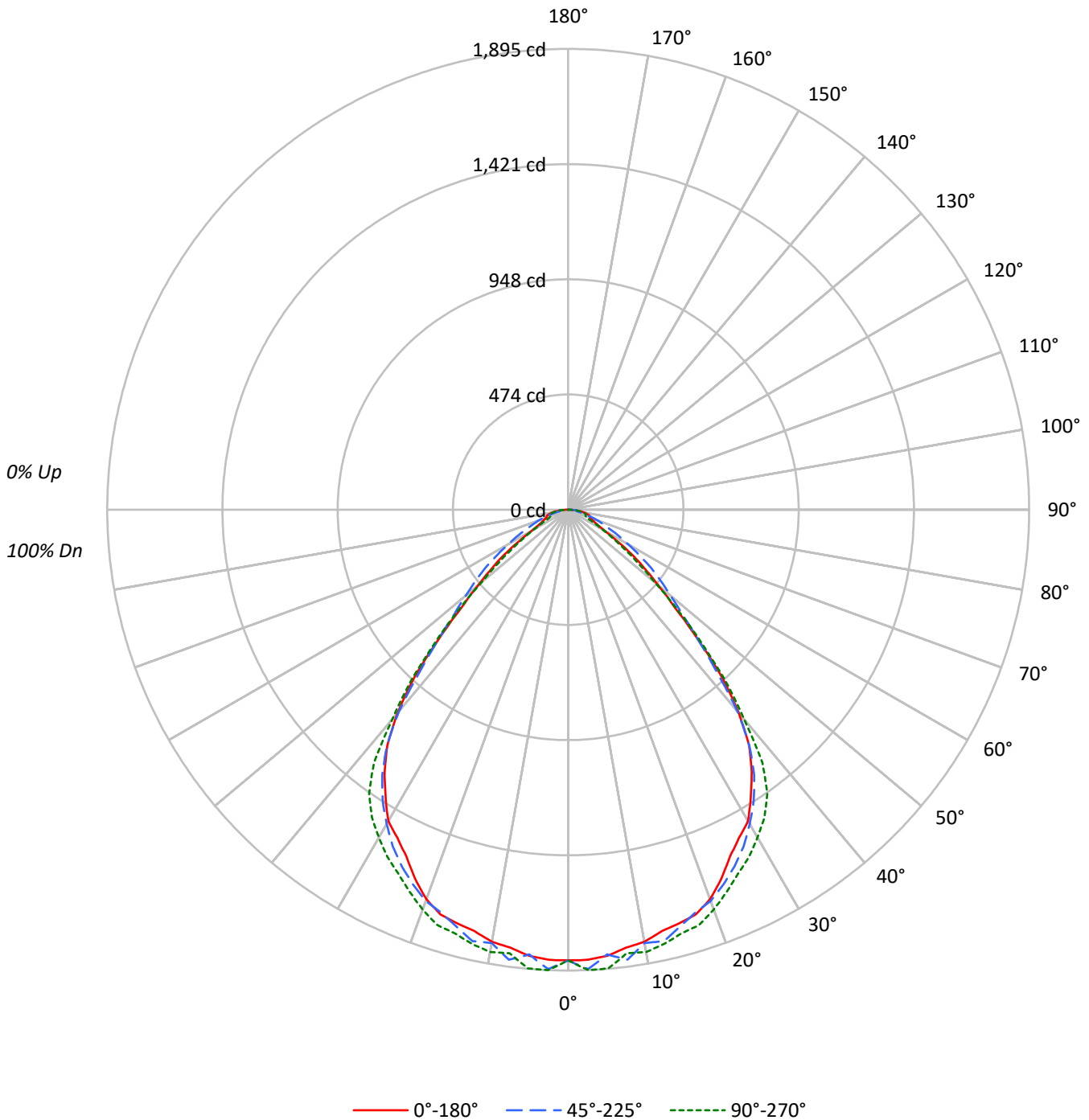
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292591

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292591

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K

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°	4987	4987	4987
5°	4975	4959	5115
10°	4929	4943	5046
15°	4906	4944	5023
20°	4880	4904	5010
25°	4672	4804	4903
30°	4595	4637	4835
35°	4321	4376	4687
40°	3829	3803	3953
45°	2860	2866	2946
50°	2013	2290	1950
55°	1486	1934	1332
60°	929	1528	870
65°	758	1211	608
70°	751	1009	600
75°	932	740	776
80°	1038	584	948
85°	1034	1087	1062



TEST NUMBER: P292591

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.4	5.0
10°-20°	502.5	14.1
20°-30°	744.3	20.9
30°-40°	833.7	23.4
40°-50°	612.6	17.2
50°-60°	342.4	9.6
60°-70°	190.8	5.4
70°-80°	112.1	3.2
80°-90°	41.2	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°	1423.2	40.0
0°-40°	2256.9	63.5
0°-60°	3211.8	90.3
0°-90°	3556.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3556.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1853	1853	1853	1853	1853	
5°	1842	1876	1836	1873	1894	174
15°	1761	1772	1774	1801	1803	497
25°	1574	1586	1618	1640	1651	729
35°	1315	1316	1332	1392	1427	815
45°	752	813	753	807	774	587
55°	317	385	412	411	284	283
65°	119	211	190	244	96	123
75°	90	126	71	143	75	90
85°	34	49	35	45	34	37
90°	0	0	0	0	0	



TEST NUMBER: P292591

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1853.3	1853.3	1853.3	1853.3	1853.3
2.5°	1852.5	1869.2	1891.0	1893.5	1895.2
5°	1841.6	1875.9	1835.7	1873.4	1893.5
7.5°	1816.4	1837.4	1866.7	1829.0	1839.9
10°	1803.9	1808.9	1808.9	1855.8	1846.6
12.5°	1775.4	1808.9	1817.3	1808.0	1828.2
15°	1761.1	1772.0	1774.5	1801.3	1803.0
17.5°	1745.2	1742.7	1736.8	1756.1	1790.5
20°	1704.2	1694.9	1712.5	1736.0	1749.4
22.5°	1643.8	1646.3	1667.3	1686.6	1701.6
25°	1573.5	1586.0	1617.9	1640.5	1651.4
27.5°	1520.7	1539.1	1560.9	1587.7	1609.5
30°	1478.8	1477.1	1492.2	1530.7	1555.9
32.5°	1397.5	1403.4	1419.3	1465.4	1500.6
35°	1315.4	1316.2	1332.2	1392.5	1426.8
37.5°	1220.7	1214.0	1223.2	1288.6	1311.2
40°	1090.0	1091.7	1082.5	1128.6	1125.2
42.5°	937.5	950.9	903.2	963.5	959.3
45°	751.5	812.7	753.2	806.8	774.2
47.5°	593.2	683.7	634.2	673.6	612.5
50°	480.9	573.9	547.1	564.7	465.8
52.5°	394.6	470.0	478.4	482.6	363.6
55°	316.7	385.4	412.2	411.4	284.0
57.5°	233.8	313.3	344.3	356.9	215.3
60°	172.6	260.6	284.0	311.7	161.7
62.5°	139.1	228.7	234.6	273.1	123.2
65°	119.0	211.1	190.2	243.8	95.5
67.5°	105.6	196.9	155.0	217.8	81.3
70°	95.5	175.1	128.2	195.2	76.2
72.5°	93.0	149.1	98.9	174.3	75.4
75°	89.6	126.5	71.2	143.3	74.6
77.5°	77.1	108.1	51.1	110.6	69.5
80°	67.0	86.3	37.7	82.9	61.2
82.5°	51.9	65.4	33.5	62.8	49.4
85°	33.5	49.4	35.2	45.2	34.4
87.5°	15.9	27.6	25.1	24.3	17.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)