

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: P292592

Luminaire Tested: **22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292592
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3619.0 lumens
Efficiency: N/A
Efficacy: 126.3 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

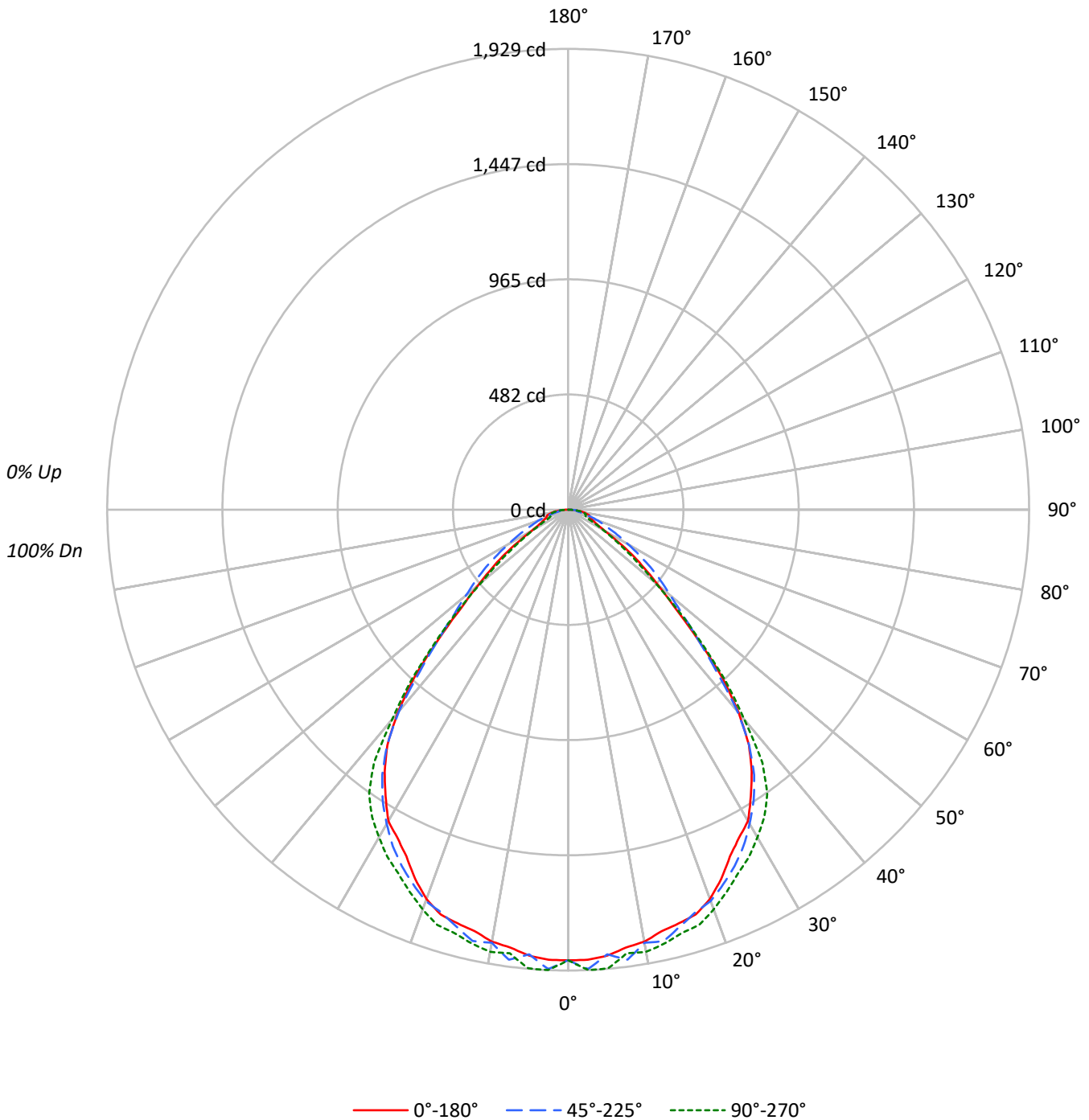
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292592

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P292592

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4500K

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°	5075	5075	5075
5°	5063	5046	5206
10°	5016	5030	5135
15°	4993	5031	5112
20°	4966	4991	5098
25°	4755	4889	4990
30°	4676	4719	4920
35°	4398	4454	4770
40°	3897	3870	4023
45°	2911	2917	2998
50°	2049	2331	1985
55°	1512	1968	1356
60°	946	1556	886
65°	771	1233	619
70°	765	1027	611
75°	948	754	789
80°	1057	595	964
85°	1053	1105	1081



TEST NUMBER: P292592

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.5	5.0
10°-20°	511.4	14.1
20°-30°	757.4	20.9
30°-40°	848.4	23.4
40°-50°	623.4	17.2
50°-60°	348.5	9.6
60°-70°	194.2	5.4
70°-80°	114.1	3.2
80°-90°	41.9	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°	1448.4	40.0
0°-40°	2296.8	63.5
0°-60°	3268.7	90.3
0°-90°	3619.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3619.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1886	1886	1886	1886	1886	
5°	1874	1909	1868	1907	1927	177
15°	1792	1803	1806	1833	1835	506
25°	1601	1614	1646	1670	1681	742
35°	1339	1340	1356	1417	1452	829
45°	765	827	767	821	788	598
55°	322	392	420	419	289	288
65°	121	215	194	248	97	125
75°	91	129	72	146	76	92
85°	34	50	36	46	35	37
90°	0	0	0	0	0	



TEST NUMBER: P292592

CATALOG NUMBER: 22GR-LD5-36-A19/156-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.1	1886.1	1886.1	1886.1	1886.1
2.5°	1885.3	1902.3	1924.5	1927.1	1928.8
5°	1874.2	1909.1	1868.2	1906.6	1927.1
7.5°	1848.6	1869.9	1899.8	1861.4	1872.5
10°	1835.8	1840.9	1840.9	1888.7	1879.3
12.5°	1806.8	1840.9	1849.5	1840.1	1860.5
15°	1792.3	1803.4	1806.0	1833.3	1835.0
17.5°	1776.1	1773.6	1767.6	1787.2	1822.2
20°	1734.3	1725.0	1742.9	1766.7	1780.4
22.5°	1673.0	1675.5	1696.8	1716.4	1731.8
25°	1601.3	1614.1	1646.5	1669.5	1680.6
27.5°	1547.6	1566.4	1588.5	1615.8	1638.0
30°	1505.0	1503.3	1518.6	1557.8	1583.4
32.5°	1422.3	1428.2	1444.4	1491.3	1527.1
35°	1338.7	1339.6	1355.8	1417.1	1452.1
37.5°	1242.4	1235.5	1244.9	1311.4	1334.4
40°	1109.3	1111.0	1101.7	1148.6	1145.1
42.5°	954.1	967.8	919.2	980.6	976.3
45°	764.9	827.1	766.6	821.1	787.9
47.5°	603.7	695.8	645.5	685.6	623.3
50°	489.4	584.1	556.8	574.7	474.1
52.5°	401.6	478.4	486.9	491.1	370.1
55°	322.3	392.2	419.5	418.7	289.1
57.5°	237.9	318.9	350.5	363.2	219.1
60°	175.7	265.2	289.1	317.2	164.6
62.5°	141.5	232.8	238.7	278.0	125.3
65°	121.1	214.9	193.6	248.1	97.2
67.5°	107.4	200.4	157.7	221.7	82.7
70°	97.2	178.2	130.5	198.7	77.6
72.5°	94.6	151.8	100.6	177.4	76.7
75°	91.2	128.8	72.5	145.8	75.9
77.5°	78.4	110.0	52.0	112.6	70.8
80°	68.2	87.8	38.4	84.4	62.2
82.5°	52.9	66.5	34.1	64.0	50.3
85°	34.1	50.3	35.8	46.0	35.0
87.5°	16.2	28.1	25.6	24.7	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)