

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: P292320

Luminaire Tested: **22GR-LD5-43-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-A-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4120.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

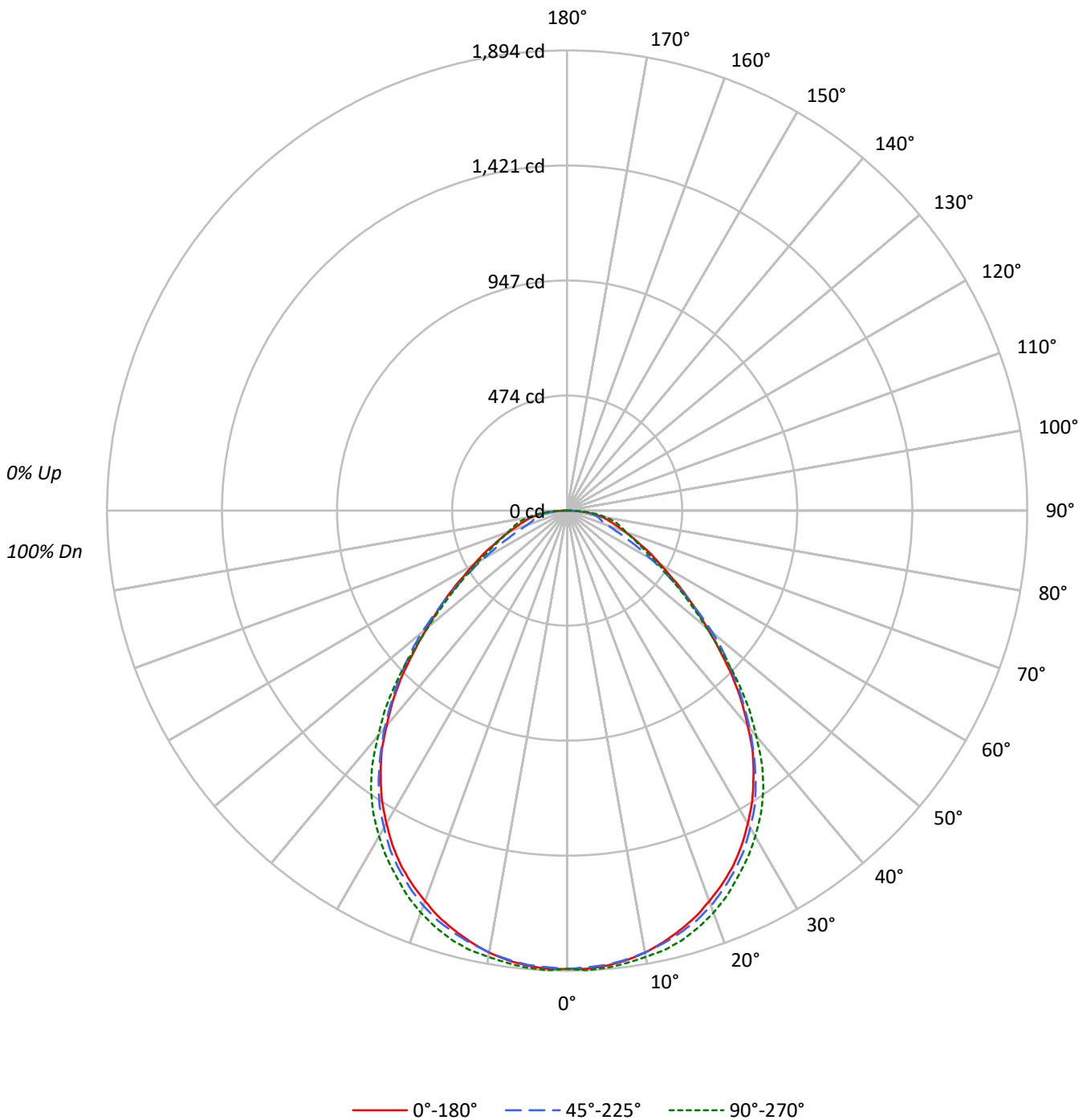
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292320

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292320

CATALOG NUMBER: 22GR-LD5-43-A-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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76					74				
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66					64				
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58					56				
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51					49				
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46					44				
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41					39				
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37					36				
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34					32				
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5077	5077	5077
5°	5079	5071	5102
10°	5048	5046	5096
15°	4984	5011	5099
20°	4898	4956	5044
25°	4794	4848	4936
30°	4621	4683	4811
35°	4393	4444	4623
40°	4062	4105	4250
45°	3648	3714	3773
50°	3155	3267	3123
55°	2753	2681	2645
60°	2384	2146	2291
65°	2131	1685	2057
70°	1976	1396	2029
75°	1973	1475	2253
80°	2183	1857	2540
85°	2279	2013	2871



TEST NUMBER: P292320

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.6	4.3
10°-20°	508.5	12.3
20°-30°	752.1	18.3
30°-40°	848.7	20.6
40°-50°	748.2	18.2
50°-60°	513.2	12.5
60°-70°	302.9	7.4
70°-80°	189.0	4.6
80°-90°	78.8	1.9
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°	1439.2	34.9
0°-40°	2287.9	55.5
0°-60°	3549.3	86.1
0°-90°	4120.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4120.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1887	1887	1887	1887	1887	
5°	1880	1876	1877	1884	1889	178
15°	1789	1791	1799	1821	1830	504
25°	1614	1620	1633	1654	1662	741
35°	1337	1349	1353	1385	1407	833
45°	959	964	976	982	991	736
55°	587	572	571	552	564	526
65°	335	294	265	306	323	337
75°	190	171	142	198	217	204
85°	74	69	65	85	93	80
90°	0	0	0	0	0	



TEST NUMBER: P292320

CATALOG NUMBER: 22GR-LD5-43-A-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1886.8	1886.8	1886.8	1886.8	1886.8
2.5°	1887.8	1883.0	1881.1	1888.7	1893.5
5°	1880.1	1876.3	1877.2	1883.9	1888.7
7.5°	1866.7	1863.8	1863.8	1873.4	1878.2
10°	1847.5	1846.5	1846.5	1858.0	1864.8
12.5°	1820.7	1821.6	1825.5	1840.8	1852.3
15°	1789.0	1790.9	1798.6	1820.7	1830.2
17.5°	1754.5	1754.5	1769.8	1787.1	1798.6
20°	1710.4	1713.3	1730.5	1749.7	1761.2
22.5°	1665.3	1670.1	1684.5	1706.6	1717.1
25°	1614.5	1620.3	1632.7	1653.8	1662.5
27.5°	1555.1	1562.8	1576.2	1591.5	1609.7
30°	1487.0	1498.5	1507.1	1528.2	1548.4
32.5°	1418.0	1428.5	1438.1	1460.2	1483.2
35°	1337.4	1349.0	1352.8	1385.4	1407.4
37.5°	1255.0	1259.8	1261.7	1294.3	1318.3
40°	1156.2	1165.8	1168.7	1194.6	1209.9
42.5°	1061.3	1065.2	1070.9	1090.1	1108.3
45°	958.7	963.5	976.0	981.8	991.3
47.5°	851.4	865.7	880.1	861.9	862.9
50°	753.6	765.1	780.4	745.9	745.9
52.5°	666.3	672.1	673.0	644.3	650.0
55°	586.8	572.4	571.4	552.2	563.7
57.5°	507.2	488.0	481.3	475.5	489.0
60°	442.9	408.4	398.8	407.5	425.7
62.5°	390.2	346.1	327.9	349.9	366.2
65°	334.6	294.3	264.6	305.8	323.1
67.5°	291.5	253.1	214.8	273.2	285.7
70°	251.2	221.5	177.4	248.3	257.9
72.5°	218.6	195.6	153.4	224.3	235.9
75°	189.8	170.7	141.9	198.5	216.7
77.5°	166.8	145.7	132.3	171.6	193.7
80°	140.9	119.8	119.8	143.8	163.9
82.5°	111.2	94.0	96.8	117.0	131.3
85°	73.8	69.0	65.2	85.3	93.0
87.5°	37.4	38.3	34.5	44.1	45.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)