

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: P292119

Luminaire Tested: **22GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3845.0 lumens
Efficiency: N/A
Efficacy: 108.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

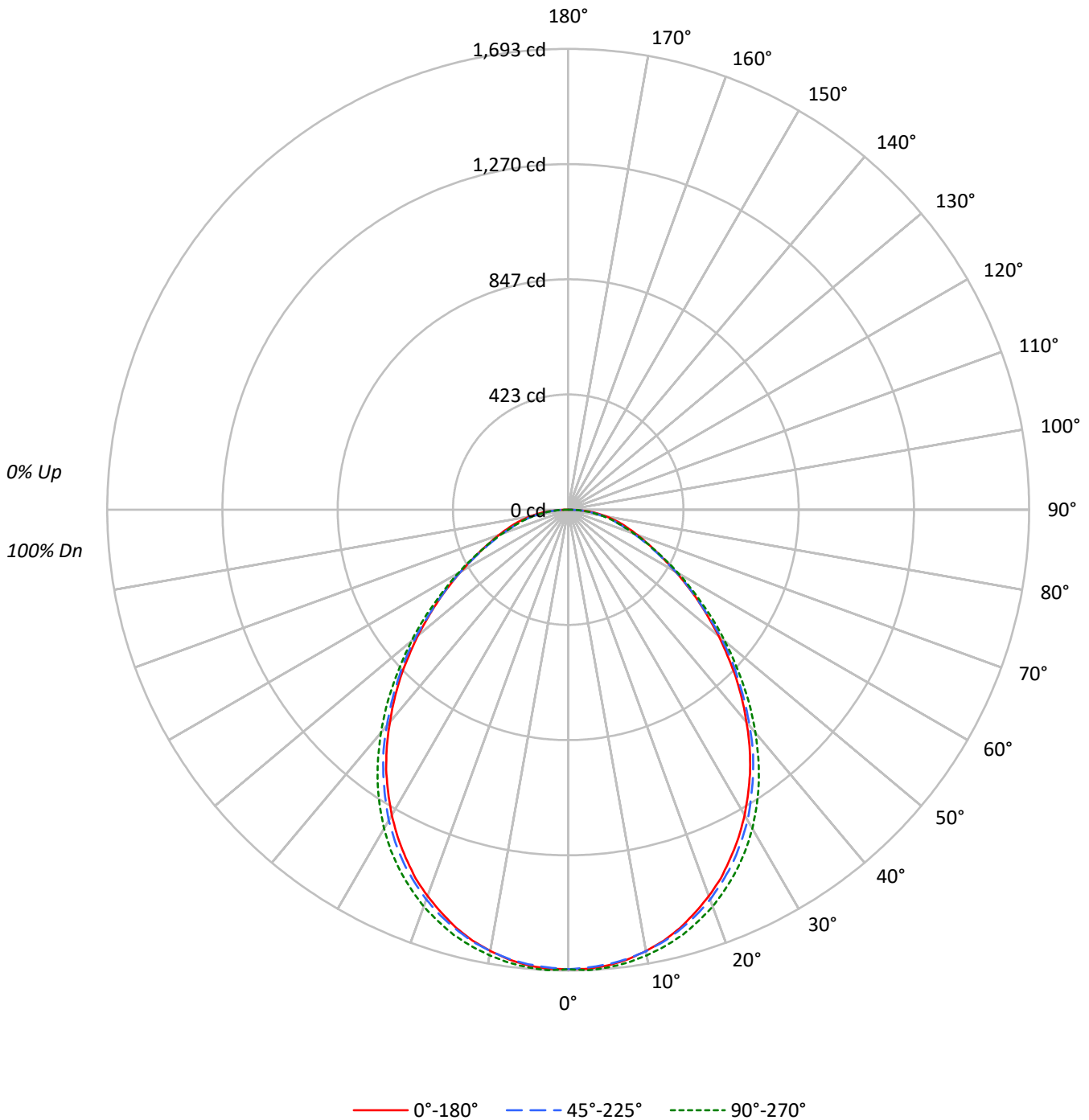
Input Watts (W): 35.526
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292119

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P292119

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L92765-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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	73
3	92	82	75	69	90	81	74	68	78	72	67		75	70	66		73	68	65	62
4	85	74	65	59	83	72	65	59	70	63	58		68	62	57		65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51		61	55	50		59	54	50	48
6	73	60	52	45	71	59	51	45	57	50	45		56	49	45		54	49	44	42
7	68	55	46	41	66	54	46	40	53	45	40		51	45	40		50	44	40	38
8	63	50	42	36	62	50	42	36	48	41	36		47	41	36		46	40	36	34
9	59	46	38	33	58	46	38	33	45	38	33		44	37	33		43	37	33	31
10	56	43	35	30	54	42	35	30	41	35	30		40	34	30		40	34	30	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4542	4542	4542
5°	4540	4528	4560
10°	4498	4500	4542
15°	4429	4444	4509
20°	4325	4364	4443
25°	4191	4249	4342
30°	4025	4094	4203
35°	3828	3889	4009
40°	3579	3639	3758
45°	3314	3365	3463
50°	3018	3067	3145
55°	2725	2733	2813
60°	2444	2454	2511
65°	2227	2181	2232
70°	2120	2001	2035
75°	2133	1930	1939
80°	2211	1949	1936
85°	2424	2066	1954



TEST NUMBER: P292119

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	4.1
10°-20°	450.5	11.7
20°-30°	659.4	17.1
30°-40°	741.3	19.3
40°-50°	683.7	17.8
50°-60°	526.9	13.7
60°-70°	347.7	9.0
70°-80°	202.4	5.3
80°-90°	73.7	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°	1269.3	33.0
0°-40°	2010.6	52.3
0°-60°	3221.2	83.8
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1688	1688	1688	1688	1688	
5°	1681	1677	1676	1684	1688	159
15°	1590	1590	1595	1610	1618	447
25°	1411	1418	1431	1451	1462	649
35°	1165	1170	1184	1208	1220	726
45°	871	872	884	902	910	670
55°	581	580	583	592	600	521
65°	350	348	343	345	351	351
75°	205	196	186	182	186	216
85°	78	78	67	62	63	83
90°	0	0	0	0	0	



TEST NUMBER: P292119

CATALOG NUMBER: 22GR-LD5-43-F125-UNV-L92765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1688.0	1688.0	1688.0	1688.0	1688.0
2.5°	1688.0	1684.4	1683.5	1689.8	1693.3
5°	1680.8	1677.3	1676.4	1684.4	1688.0
7.5°	1666.6	1663.9	1664.8	1673.7	1678.2
10°	1646.0	1645.1	1646.9	1656.7	1662.1
12.5°	1622.0	1621.1	1624.6	1635.3	1642.5
15°	1589.8	1589.8	1595.2	1609.5	1618.4
17.5°	1551.5	1554.1	1562.2	1576.5	1586.3
20°	1510.4	1513.1	1523.8	1539.9	1551.5
22.5°	1464.9	1468.5	1479.2	1498.8	1508.6
25°	1411.4	1418.5	1431.0	1450.7	1462.3
27.5°	1356.1	1364.1	1375.7	1399.8	1410.5
30°	1295.4	1300.8	1317.7	1340.0	1352.5
32.5°	1231.2	1236.5	1250.8	1277.6	1288.3
35°	1165.2	1170.5	1183.9	1208.0	1220.5
37.5°	1093.8	1098.3	1114.3	1133.0	1146.4
40°	1018.8	1025.1	1035.8	1058.1	1069.7
42.5°	945.7	948.4	960.0	982.3	991.2
45°	870.8	871.6	884.1	902.0	910.0
47.5°	793.1	794.9	810.1	820.8	828.8
50°	720.9	721.8	732.5	742.3	751.2
52.5°	648.6	648.6	654.0	664.7	676.3
55°	580.8	579.9	582.6	592.4	599.5
57.5°	516.6	515.7	519.2	525.5	530.8
60°	454.1	452.3	455.9	459.5	466.6
62.5°	398.8	400.6	396.1	401.5	406.8
65°	349.7	347.9	342.6	345.3	350.6
67.5°	307.8	305.1	296.2	298.0	304.2
70°	269.4	264.1	254.3	254.3	258.7
72.5°	234.6	229.3	216.8	217.7	219.5
75°	205.2	196.3	185.6	182.0	186.5
77.5°	173.1	165.9	156.1	153.5	155.2
80°	142.7	137.4	125.8	122.2	124.9
82.5°	113.3	108.8	95.5	92.8	93.7
85°	78.5	77.6	66.9	61.6	63.3
87.5°	41.9	42.8	34.8	31.2	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)