

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: P291954

Luminaire Tested: **22GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291954
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-LD5-40-F125-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3854.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

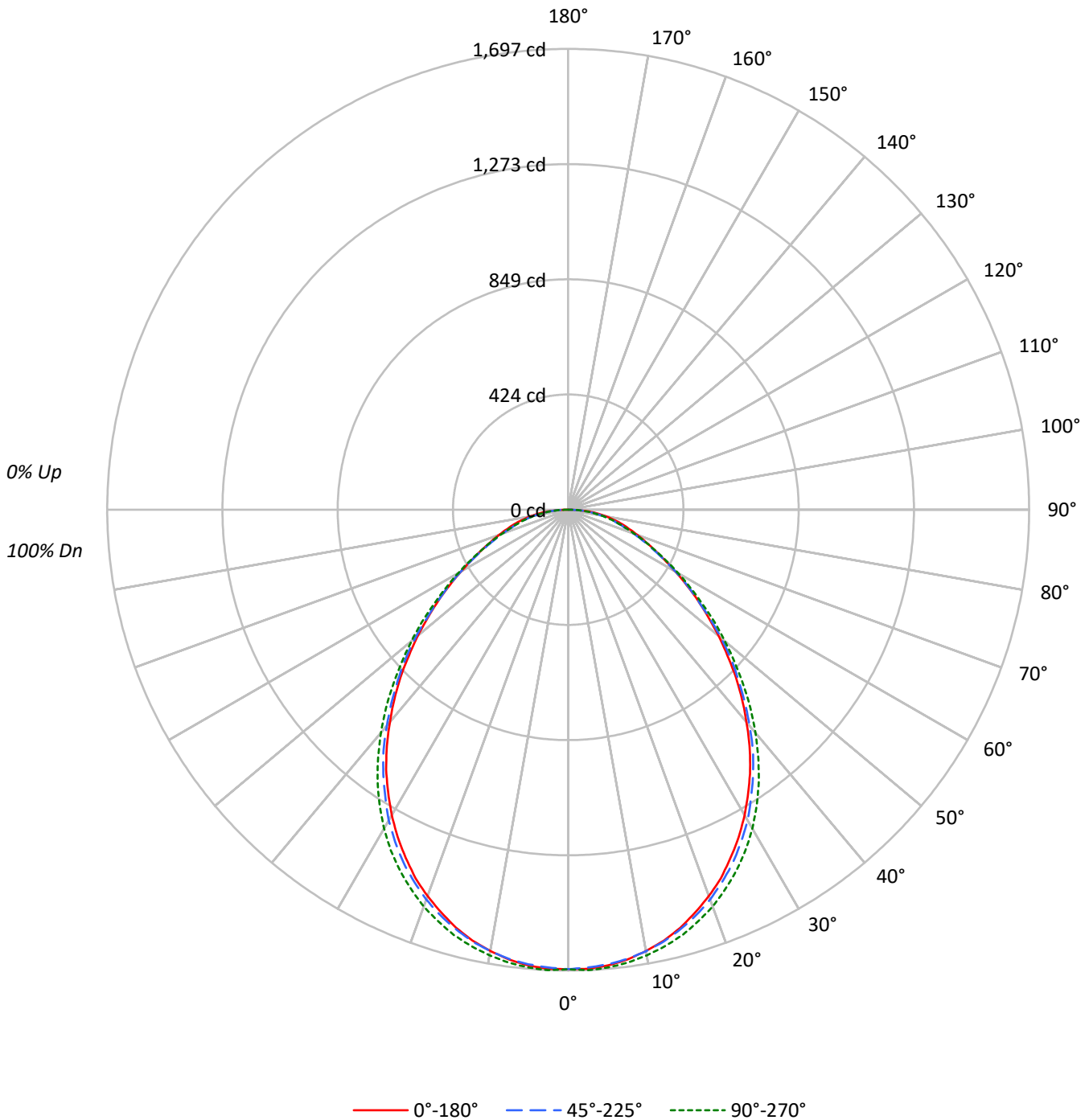
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291954

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291954

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4553	4553	4553
5°	4551	4539	4570
10°	4508	4511	4552
15°	4440	4454	4519
20°	4336	4374	4453
25°	4200	4259	4352
30°	4035	4104	4213
35°	3837	3898	4019
40°	3587	3647	3766
45°	3322	3373	3471
50°	3025	3074	3152
55°	2731	2739	2819
60°	2450	2460	2517
65°	2232	2187	2238
70°	2125	2006	2040
75°	2139	1934	1943
80°	2218	1954	1940
85°	2430	2072	1961



TEST NUMBER: P291954

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	4.1
10°-20°	451.5	11.7
20°-30°	660.9	17.1
30°-40°	743.1	19.3
40°-50°	685.3	17.8
50°-60°	528.2	13.7
60°-70°	348.5	9.0
70°-80°	202.8	5.3
80°-90°	73.9	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°	1272.3	33.0
0°-40°	2015.4	52.3
0°-60°	3228.8	83.8
0°-90°	3854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1692	1692	1692	1692	1692	
5°	1685	1681	1680	1688	1692	160
15°	1594	1594	1599	1613	1622	448
25°	1415	1422	1434	1454	1466	651
35°	1168	1173	1187	1211	1223	728
45°	873	874	886	904	912	672
55°	582	581	584	594	601	522
65°	350	349	343	346	351	352
75°	206	197	186	182	187	217
85°	79	78	67	62	64	83
90°	0	0	0	0	0	



TEST NUMBER: P291954

CATALOG NUMBER: 22GR-LD5-40-F125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1691.9	1691.9	1691.9	1691.9	1691.9
2.5°	1691.9	1688.3	1687.5	1693.7	1697.3
5°	1684.8	1681.2	1680.3	1688.3	1691.9
7.5°	1670.5	1667.8	1668.7	1677.6	1682.1
10°	1649.9	1649.0	1650.8	1660.6	1666.0
12.5°	1625.7	1624.9	1628.4	1639.2	1646.3
15°	1593.6	1593.6	1598.9	1613.2	1622.2
17.5°	1555.1	1557.8	1565.8	1580.1	1590.0
20°	1514.0	1516.6	1527.4	1543.5	1555.1
22.5°	1468.4	1471.9	1482.7	1502.3	1512.2
25°	1414.7	1421.9	1434.4	1454.1	1465.7
27.5°	1359.3	1367.3	1378.9	1403.1	1413.8
30°	1298.5	1303.8	1320.8	1343.2	1355.7
32.5°	1234.1	1239.4	1253.7	1280.6	1291.3
35°	1167.9	1173.3	1186.7	1210.8	1223.3
37.5°	1096.4	1100.8	1116.9	1135.7	1149.1
40°	1021.2	1027.5	1038.2	1060.6	1072.2
42.5°	947.9	950.6	962.2	984.6	993.5
45°	872.8	873.7	886.2	904.1	912.1
47.5°	795.0	796.8	812.0	822.7	830.8
50°	722.6	723.4	734.2	744.0	753.0
52.5°	650.1	650.1	655.5	666.2	677.8
55°	582.2	581.3	583.9	593.8	600.9
57.5°	517.8	516.9	520.5	526.7	532.1
60°	455.2	453.4	457.0	460.5	467.7
62.5°	399.7	401.5	397.0	402.4	407.8
65°	350.5	348.8	343.4	346.1	351.4
67.5°	308.5	305.8	296.9	298.7	304.9
70°	270.1	264.7	254.9	254.9	259.3
72.5°	235.2	229.8	217.3	218.2	220.0
75°	205.7	196.7	186.0	182.4	186.9
77.5°	173.5	166.3	156.5	153.8	155.6
80°	143.1	137.7	126.1	122.5	125.2
82.5°	113.6	109.1	95.7	93.0	93.9
85°	78.7	77.8	67.1	61.7	63.5
87.5°	42.0	42.9	34.9	31.3	33.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)