

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: P291944

Luminaire Tested: **22GR-LD5-32-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291944
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-LD5-32-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: 3046.0 lumens
Efficiency: N/A
Efficacy: 124.5 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

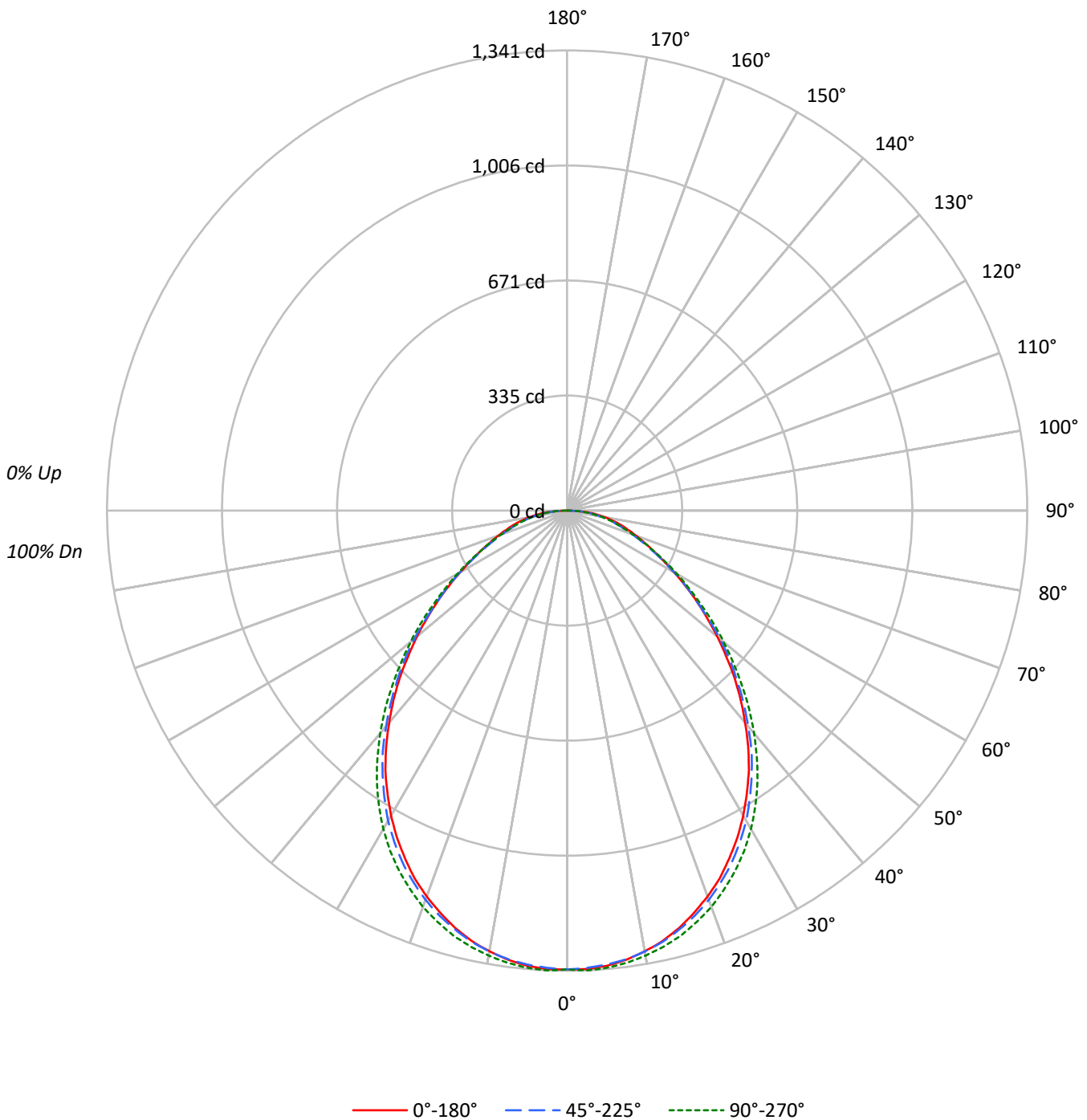
Input Watts (W): 24.459
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291944

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291944

CATALOG NUMBER: 22GR-LD5-32-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°	3598	3598	3598
5°	3597	3587	3612
10°	3563	3565	3598
15°	3509	3521	3572
20°	3427	3457	3520
25°	3320	3366	3439
30°	3189	3244	3329
35°	3032	3081	3176
40°	2835	2883	2977
45°	2625	2665	2743
50°	2391	2429	2491
55°	2159	2165	2228
60°	1936	1944	1989
65°	1764	1728	1769
70°	1679	1585	1613
75°	1691	1528	1536
80°	1753	1545	1533
85°	1920	1636	1550



TEST NUMBER: P291944

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	4.1
10°-20°	356.9	11.7
20°-30°	522.3	17.1
30°-40°	587.3	19.3
40°-50°	541.6	17.8
50°-60°	417.4	13.7
60°-70°	275.4	9.0
70°-80°	160.3	5.3
80°-90°	58.4	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°	1005.6	33.0
0°-40°	1592.8	52.3
0°-60°	2551.8	83.8
0°-90°	3046.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1329	1328	1334	1337	126
15°	1260	1260	1264	1275	1282	354
25°	1118	1124	1134	1149	1158	514
35°	923	927	938	957	967	575
45°	690	690	700	714	721	531
55°	460	459	462	469	475	413
65°	277	276	271	274	278	278
75°	163	156	147	144	148	171
85°	62	62	53	49	50	66
90°	0	0	0	0	0	



TEST NUMBER: P291944

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1337.2	1337.2	1337.2	1337.2	1337.2
2.5°	1337.2	1334.4	1333.7	1338.6	1341.4
5°	1331.6	1328.7	1328.0	1334.4	1337.2
7.5°	1320.2	1318.1	1318.8	1325.9	1329.4
10°	1304.0	1303.3	1304.7	1312.5	1316.7
12.5°	1284.9	1284.2	1287.0	1295.5	1301.2
15°	1259.5	1259.5	1263.7	1275.0	1282.1
17.5°	1229.1	1231.2	1237.6	1248.9	1256.6
20°	1196.6	1198.7	1207.2	1219.9	1229.1
22.5°	1160.5	1163.3	1171.8	1187.4	1195.1
25°	1118.1	1123.8	1133.7	1149.2	1158.4
27.5°	1074.3	1080.6	1089.8	1108.9	1117.4
30°	1026.2	1030.5	1043.9	1061.6	1071.5
32.5°	975.3	979.6	990.9	1012.1	1020.6
35°	923.0	927.3	937.9	957.0	966.9
37.5°	866.5	870.0	882.8	897.6	908.2
40°	807.1	812.1	820.6	838.2	847.4
42.5°	749.2	751.3	760.5	778.2	785.2
45°	689.8	690.5	700.4	714.5	720.9
47.5°	628.3	629.7	641.7	650.2	656.6
50°	571.1	571.8	580.3	588.0	595.1
52.5°	513.8	513.8	518.1	526.5	535.7
55°	460.1	459.4	461.5	469.3	474.9
57.5°	409.2	408.5	411.3	416.3	420.5
60°	359.7	358.3	361.2	364.0	369.6
62.5°	315.9	317.3	313.8	318.0	322.3
65°	277.1	275.6	271.4	273.5	277.8
67.5°	243.8	241.7	234.6	236.1	241.0
70°	213.4	209.2	201.4	201.4	205.0
72.5°	185.9	181.6	171.7	172.5	173.9
75°	162.6	155.5	147.0	144.2	147.7
77.5°	137.1	131.5	123.7	121.6	123.0
80°	113.1	108.8	99.7	96.8	98.9
82.5°	89.8	86.2	75.6	73.5	74.2
85°	62.2	61.5	53.0	48.8	50.2
87.5°	33.2	33.9	27.6	24.7	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)