

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: P292096

Luminaire Tested: **22GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292096
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-L92765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3038.0 lumens
Efficiency: N/A
Efficacy: 120.1 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

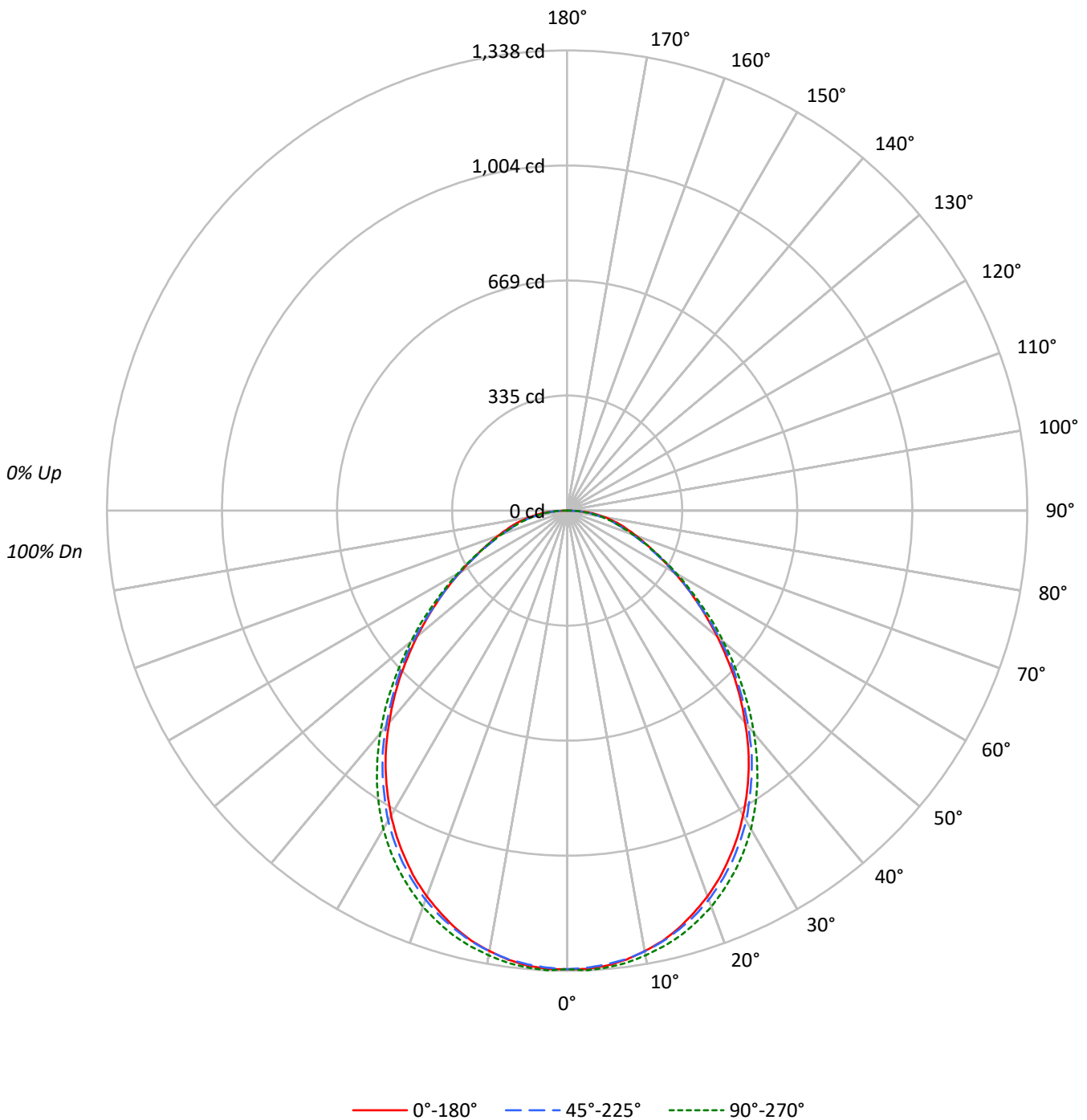
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292096

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P292096

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K

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°	3589	3589	3589
5°	3588	3578	3603
10°	3554	3556	3589
15°	3500	3511	3562
20°	3418	3448	3510
25°	3311	3357	3431
30°	3180	3235	3320
35°	3024	3073	3168
40°	2828	2875	2969
45°	2618	2659	2736
50°	2385	2423	2485
55°	2153	2160	2222
60°	1931	1939	1984
65°	1759	1724	1764
70°	1675	1581	1608
75°	1685	1524	1531
80°	1748	1540	1530
85°	1914	1633	1544



TEST NUMBER: P292096

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.0	4.1
10°-20°	355.9	11.7
20°-30°	521.0	17.1
30°-40°	585.7	19.3
40°-50°	540.2	17.8
50°-60°	416.3	13.7
60°-70°	274.7	9.0
70°-80°	159.9	5.3
80°-90°	58.2	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°	1002.9	33.0
0°-40°	1588.6	52.3
0°-60°	2545.1	83.8
0°-90°	3038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1334	1334	1334	1334	1334	
5°	1328	1325	1324	1331	1334	126
15°	1256	1256	1260	1272	1279	354
25°	1115	1121	1131	1146	1155	513
35°	921	925	935	954	964	574
45°	688	689	699	713	719	530
55°	459	458	460	468	474	412
65°	276	275	271	273	277	277
75°	162	155	147	144	147	171
85°	62	61	53	49	50	66
90°	0	0	0	0	0	



TEST NUMBER: P292096

CATALOG NUMBER: 22GR-LD5-32-F125-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1333.7	1333.7	1333.7	1333.7	1333.7
2.5°	1333.7	1330.9	1330.2	1335.1	1337.9
5°	1328.1	1325.2	1324.5	1330.9	1333.7
7.5°	1316.8	1314.7	1315.4	1322.4	1325.9
10°	1300.6	1299.9	1301.3	1309.0	1313.3
12.5°	1281.5	1280.8	1283.6	1292.1	1297.7
15°	1256.2	1256.2	1260.4	1271.7	1278.7
17.5°	1225.8	1228.0	1234.3	1245.6	1253.3
20°	1193.4	1195.5	1204.0	1216.7	1225.8
22.5°	1157.5	1160.3	1168.7	1184.3	1192.0
25°	1115.2	1120.8	1130.7	1146.2	1155.4
27.5°	1071.5	1077.8	1087.0	1106.0	1114.5
30°	1023.5	1027.8	1041.2	1058.8	1068.6
32.5°	972.8	977.0	988.3	1009.4	1017.9
35°	920.6	924.8	935.4	954.5	964.3
37.5°	864.2	867.7	880.4	895.2	905.8
40°	805.0	809.9	818.4	836.0	845.2
42.5°	747.2	749.3	758.5	776.1	783.2
45°	688.0	688.7	698.6	712.7	719.0
47.5°	626.7	628.1	640.1	648.5	654.9
50°	569.6	570.3	578.7	586.5	593.5
52.5°	512.5	512.5	516.7	525.2	534.3
55°	458.9	458.2	460.3	468.1	473.7
57.5°	408.1	407.4	410.3	415.2	419.4
60°	358.8	357.4	360.2	363.0	368.7
62.5°	315.1	316.5	313.0	317.2	321.4
65°	276.3	274.9	270.7	272.8	277.0
67.5°	243.2	241.1	234.0	235.4	240.4
70°	212.9	208.7	200.9	200.9	204.4
72.5°	185.4	181.2	171.3	172.0	173.4
75°	162.1	155.1	146.6	143.8	147.3
77.5°	136.8	131.1	123.4	121.2	122.7
80°	112.8	108.6	99.4	96.6	98.7
82.5°	89.5	86.0	75.4	73.3	74.0
85°	62.0	61.3	52.9	48.6	50.0
87.5°	33.1	33.8	27.5	24.7	26.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)