

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: P291992

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291992
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-L82765-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: 3043.0 lumens
Efficiency: N/A
Efficacy: 124.9 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

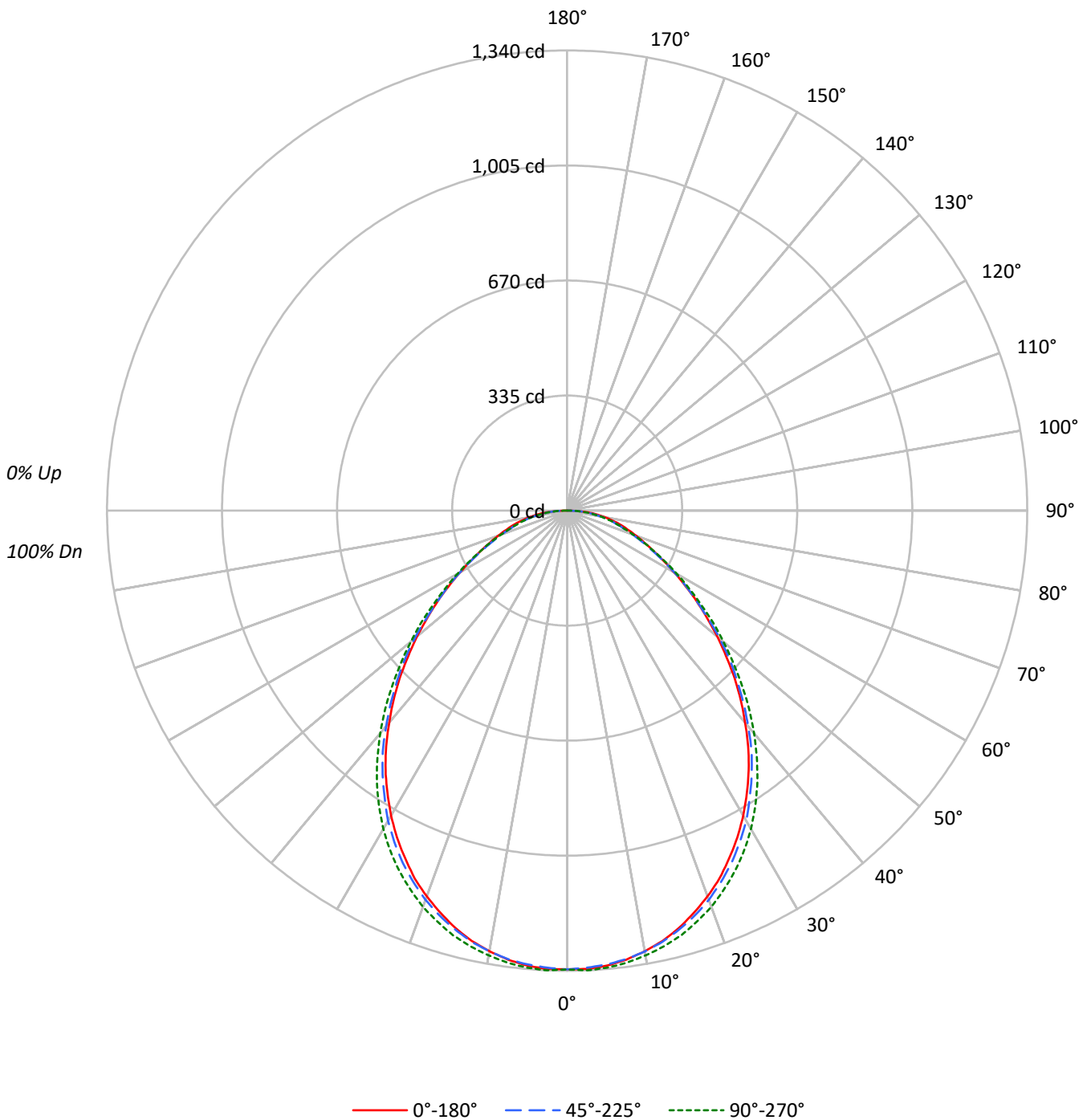
Input Watts (W): 24.366
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3595	3595	3595
5°	3593	3584	3609
10°	3560	3562	3594
15°	3505	3517	3568
20°	3423	3454	3516
25°	3317	3363	3436
30°	3186	3241	3326
35°	3029	3078	3173
40°	2832	2880	2974
45°	2622	2663	2741
50°	2388	2427	2489
55°	2157	2163	2226
60°	1934	1942	1988
65°	1762	1726	1767
70°	1677	1583	1611
75°	1688	1527	1535
80°	1751	1543	1533
85°	1917	1636	1547



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.2	4.1
10°-20°	356.5	11.7
20°-30°	521.8	17.1
30°-40°	586.7	19.3
40°-50°	541.1	17.8
50°-60°	417.0	13.7
60°-70°	275.2	9.0
70°-80°	160.2	5.3
80°-90°	58.3	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°	1004.6	33.0
0°-40°	1591.3	52.3
0°-60°	2549.3	83.8
0°-90°	3043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3043.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1336	1336	1336	1336	1336	
5°	1330	1327	1327	1333	1336	126
15°	1258	1258	1262	1274	1281	354
25°	1117	1123	1132	1148	1157	514
35°	922	926	937	956	966	575
45°	689	690	700	714	720	531
55°	460	459	461	469	474	412
65°	277	275	271	273	278	278
75°	162	155	147	144	148	171
85°	62	61	53	49	50	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1335.9	1335.9	1335.9	1335.9	<i>1335.9</i>
2.5°	<i>1335.9</i>	<i>1333.1</i>	<i>1332.4</i>	<i>1337.3</i>	<i>1340.1</i>
5°	1330.2	1327.4	1326.7	1333.1	<i>1335.9</i>
7.5°	1318.9	1316.8	1317.5	1324.6	<i>1328.1</i>
10°	1302.7	1302.0	1303.4	1311.2	<i>1315.4</i>
12.5°	1283.6	1282.9	1285.8	1294.2	<i>1299.9</i>
15°	1258.2	1258.2	1262.5	1273.8	<i>1280.8</i>
17.5°	1227.9	1230.0	1236.3	1247.6	<i>1255.4</i>
20°	1195.4	1197.5	1206.0	1218.7	<i>1227.9</i>
22.5°	1159.4	1162.2	1170.7	1186.2	<i>1194.0</i>
25°	1117.0	1122.7	1132.5	1148.1	<i>1157.3</i>
27.5°	1073.2	1079.6	1088.8	1107.8	<i>1116.3</i>
30°	1025.2	1029.5	1042.9	1060.5	<i>1070.4</i>
32.5°	974.4	978.6	989.9	1011.1	<i>1019.6</i>
35°	922.1	926.4	937.0	956.0	<i>965.9</i>
37.5°	865.6	869.2	881.9	896.7	<i>907.3</i>
40°	806.3	811.3	819.8	837.4	<i>846.6</i>
42.5°	748.4	750.6	759.7	777.4	<i>784.4</i>
45°	689.1	689.8	699.7	713.8	<i>720.2</i>
47.5°	627.7	629.1	641.1	649.6	<i>655.9</i>
50°	570.5	571.2	579.7	587.5	<i>594.5</i>
52.5°	513.3	513.3	517.6	526.0	<i>535.2</i>
55°	459.7	458.9	461.1	468.8	<i>474.5</i>
57.5°	408.8	408.1	410.9	415.9	<i>420.1</i>
60°	359.4	358.0	360.8	363.6	<i>369.3</i>
62.5°	315.6	317.0	313.5	317.7	<i>322.0</i>
65°	276.8	275.4	271.1	273.3	<i>277.5</i>
67.5°	243.6	241.5	234.4	235.8	<i>240.8</i>
70°	213.2	209.0	201.2	201.2	<i>204.8</i>
72.5°	185.7	181.5	171.6	172.3	<i>173.7</i>
75°	162.4	155.3	146.9	144.0	<i>147.6</i>
77.5°	137.0	131.3	123.6	121.4	<i>122.9</i>
80°	113.0	108.7	99.6	96.7	<i>98.9</i>
82.5°	89.7	86.1	75.5	73.4	<i>74.1</i>
85°	62.1	61.4	53.0	48.7	<i>50.1</i>
87.5°	33.2	33.9	27.5	24.7	<i>26.1</i>
90°	0.0	0.0	0.0	0.0	<i>0.0</i>

(END OF REPORT)