

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: P291945

Luminaire Tested: **22GR-LD5-32-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291945  
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-3500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3223.0 lumens  
Efficiency: N/A  
Efficacy: 131.3 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

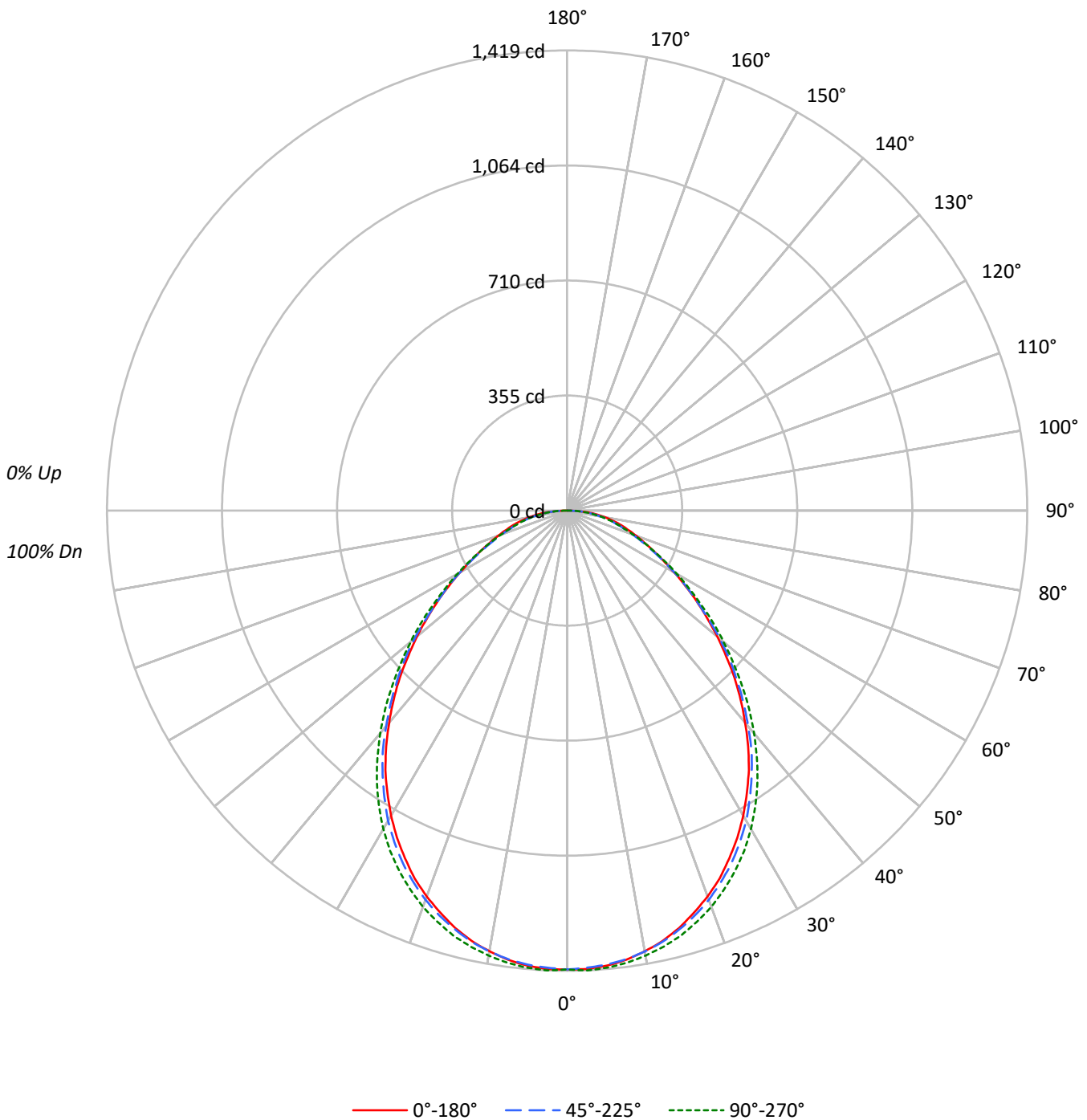
Input Watts (W): 24.552  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3807	3807	3807
5°	3806	3796	3822
10°	3770	3772	3807
15°	3712	3725	3779
20°	3626	3658	3724
25°	3513	3562	3639
30°	3374	3432	3523
35°	3209	3260	3361
40°	3000	3050	3150
45°	2778	2820	2903
50°	2530	2570	2636
55°	2284	2291	2358
60°	2048	2056	2105
65°	1867	1829	1871
70°	1777	1677	1707
75°	1788	1618	1625
80°	1855	1633	1623
85°	2032	1732	1639



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.7	4.1
10°-20°	377.6	11.7
20°-30°	552.7	17.1
30°-40°	621.4	19.3
40°-50°	573.1	17.8
50°-60°	441.7	13.7
60°-70°	291.5	9.0
70°-80°	169.6	5.3
80°-90°	61.8	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°	1064.0	33.0
0°-40°	1685.4	52.3
0°-60°	2700.1	83.8
0°-90°	3223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3223.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1415	1415	1415	1415	1415	
5°	1409	1406	1405	1412	1415	134
15°	1333	1333	1337	1349	1357	375
25°	1183	1189	1200	1216	1226	544
35°	977	981	992	1013	1023	609
45°	730	731	741	756	763	562
55°	487	486	488	497	502	437
65°	293	292	287	289	294	294
75°	172	164	156	153	156	181
85°	66	65	56	52	53	70
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1414.9	1414.9	1414.9	1414.9	1414.9
2.5°	1414.9	1411.9	1411.2	1416.4	1419.4
5°	1408.9	1405.9	1405.2	1411.9	1414.9
7.5°	1397.0	1394.7	1395.5	1402.9	1406.7
10°	1379.8	1379.0	1380.5	1388.7	1393.2
12.5°	1359.6	1358.8	1361.8	1370.8	1376.8
15°	1332.6	1332.6	1337.1	1349.1	1356.6
17.5°	1300.5	1302.7	1309.5	1321.4	1329.7
20°	1266.1	1268.3	1277.3	1290.8	1300.5
22.5°	1228.0	1230.9	1239.9	1256.4	1264.6
25°	1183.1	1189.1	1199.5	1216.0	1225.7
27.5°	1136.7	1143.4	1153.2	1173.4	1182.3
30°	1085.9	1090.3	1104.6	1123.3	1133.7
32.5°	1032.0	1036.5	1048.5	1070.9	1079.9
35°	976.7	981.2	992.4	1012.6	1023.0
37.5°	916.8	920.6	934.1	949.8	961.0
40°	854.0	859.3	868.2	886.9	896.7
42.5°	792.7	795.0	804.7	823.4	830.8
45°	729.9	730.6	741.1	756.1	762.8
47.5°	664.8	666.3	679.0	688.0	694.7
50°	604.3	605.0	614.0	622.2	629.7
52.5°	543.7	543.7	548.2	557.1	566.9
55°	486.8	486.1	488.3	496.6	502.5
57.5°	433.0	432.3	435.2	440.5	445.0
60°	380.6	379.2	382.1	385.1	391.1
62.5°	334.3	335.8	332.0	336.5	341.0
65°	293.2	291.7	287.2	289.4	293.9
67.5°	258.0	255.8	248.3	249.8	255.0
70°	225.8	221.4	213.1	213.1	216.9
72.5°	196.7	192.2	181.7	182.5	184.0
75°	172.0	164.5	155.6	152.6	156.3
77.5°	145.1	139.1	130.9	128.6	130.1
80°	119.7	115.2	105.4	102.5	104.7
82.5°	95.0	91.2	80.0	77.8	78.5
85°	65.8	65.1	56.1	51.6	53.1
87.5°	35.1	35.9	29.2	26.2	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)