

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: P291998

Luminaire Tested: **22GR-LD5-32-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291998  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3360.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

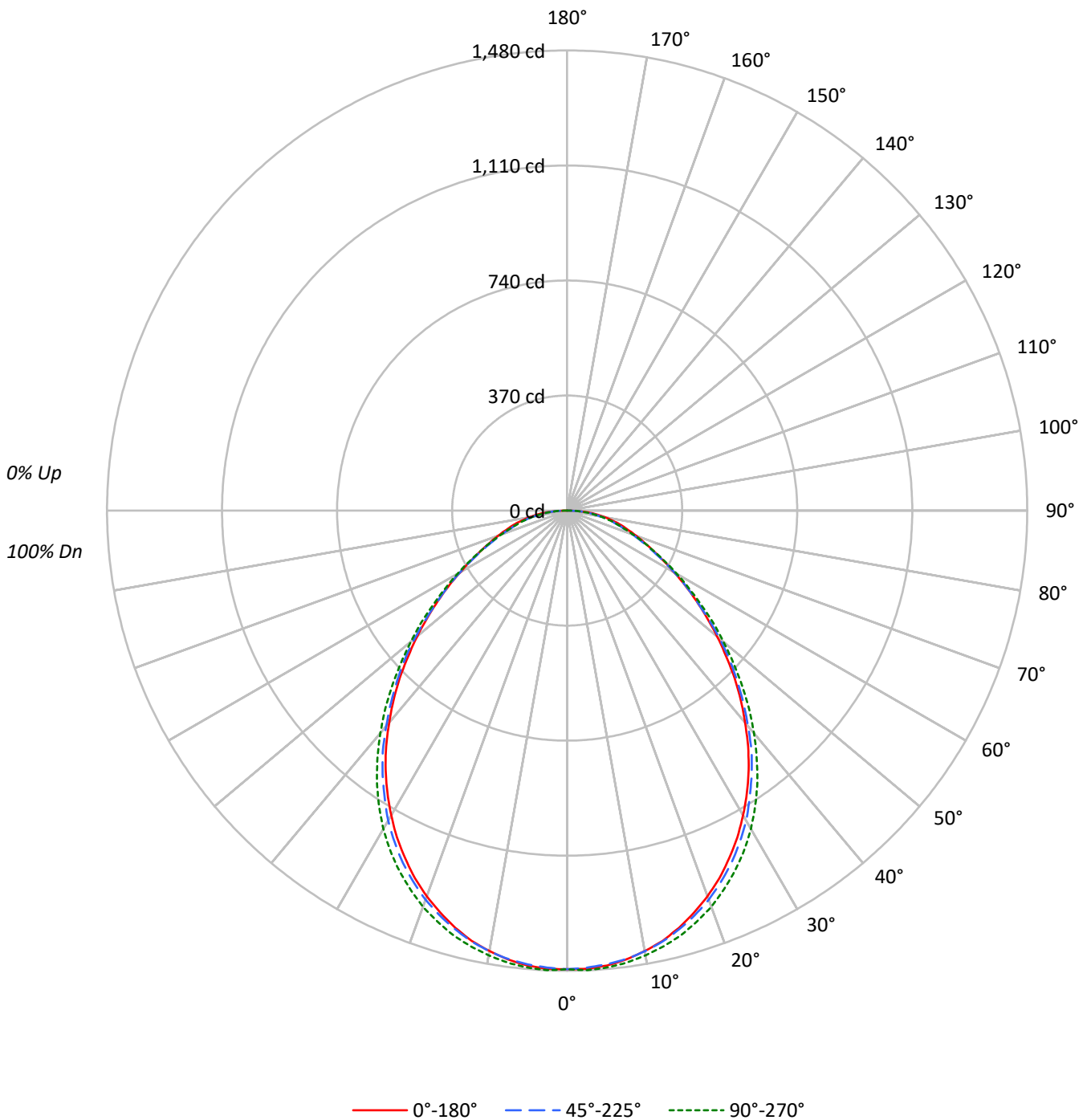
Input Watts (W): 25.203  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3969	3969	3969
5°	3968	3957	3985
10°	3930	3933	3969
15°	3870	3884	3940
20°	3780	3813	3883
25°	3662	3713	3794
30°	3517	3578	3672
35°	3345	3399	3504
40°	3127	3179	3284
45°	2896	2940	3026
50°	2637	2680	2748
55°	2381	2388	2458
60°	2136	2144	2194
65°	1946	1906	1951
70°	1852	1748	1779
75°	1864	1686	1694
80°	1932	1703	1691
85°	2118	1806	1711



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.4	4.1
10°-20°	393.7	11.7
20°-30°	576.2	17.1
30°-40°	647.8	19.3
40°-50°	597.4	17.8
50°-60°	460.5	13.7
60°-70°	303.8	9.0
70°-80°	176.8	5.3
80°-90°	64.4	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°	1109.2	33.0
0°-40°	1757.0	52.3
0°-60°	2814.9	83.8
0°-90°	3360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3360.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1469	1466	1465	1472	1475	139
15°	1389	1389	1394	1406	1414	391
25°	1233	1240	1250	1268	1278	567
35°	1018	1023	1035	1056	1066	635
45°	761	762	773	788	795	586
55°	508	507	509	518	524	455
65°	306	304	299	302	306	306
75°	179	172	162	159	163	189
85°	69	68	58	54	55	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1475.1	1471.9	1471.2	1476.6	1479.7
5°	1468.8	1465.7	1464.9	1471.9	1475.1
7.5°	1456.3	1454.0	1454.8	1462.6	1466.5
10°	1438.4	1437.6	1439.2	1447.8	1452.4
12.5°	1417.4	1416.6	1419.7	1429.1	1435.3
15°	1389.3	1389.3	1394.0	1406.4	1414.2
17.5°	1355.8	1358.1	1365.1	1377.6	1386.2
20°	1319.9	1322.2	1331.6	1345.6	1355.8
22.5°	1280.1	1283.3	1292.6	1309.8	1318.3
25°	1233.4	1239.6	1250.5	1267.7	1277.8
27.5°	1185.0	1192.0	1202.2	1223.2	1232.6
30°	1132.0	1136.7	1151.5	1171.0	1181.9
32.5°	1075.9	1080.6	1093.0	1116.4	1125.8
35°	1018.2	1022.9	1034.6	1055.6	1066.5
37.5°	955.8	959.7	973.8	990.1	1001.8
40°	890.3	895.8	905.1	924.6	934.8
42.5°	826.4	828.7	838.9	858.4	866.2
45°	760.9	761.7	772.6	788.2	795.2
47.5°	693.1	694.6	707.9	717.3	724.3
50°	629.9	630.7	640.1	648.6	656.4
52.5°	566.8	566.8	571.5	580.8	591.0
55°	507.5	506.8	509.1	517.7	523.9
57.5°	451.4	450.6	453.7	459.2	463.9
60°	396.8	395.3	398.4	401.5	407.7
62.5°	348.5	350.1	346.2	350.8	355.5
65°	305.6	304.1	299.4	301.7	306.4
67.5°	269.0	266.6	258.8	260.4	265.9
70°	235.4	230.8	222.2	222.2	226.1
72.5°	205.0	200.4	189.4	190.2	191.8
75°	179.3	171.5	162.2	159.0	162.9
77.5°	151.2	145.0	136.4	134.1	135.7
80°	124.7	120.1	109.9	106.8	109.1
82.5°	99.0	95.1	83.4	81.1	81.9
85°	68.6	67.8	58.5	53.8	55.4
87.5°	36.6	37.4	30.4	27.3	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)