

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: P291946

Luminaire Tested: **22GR-LD5-32-F125-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291946  
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-4000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3384.0 lumens  
Efficiency: N/A  
Efficacy: 134.8 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

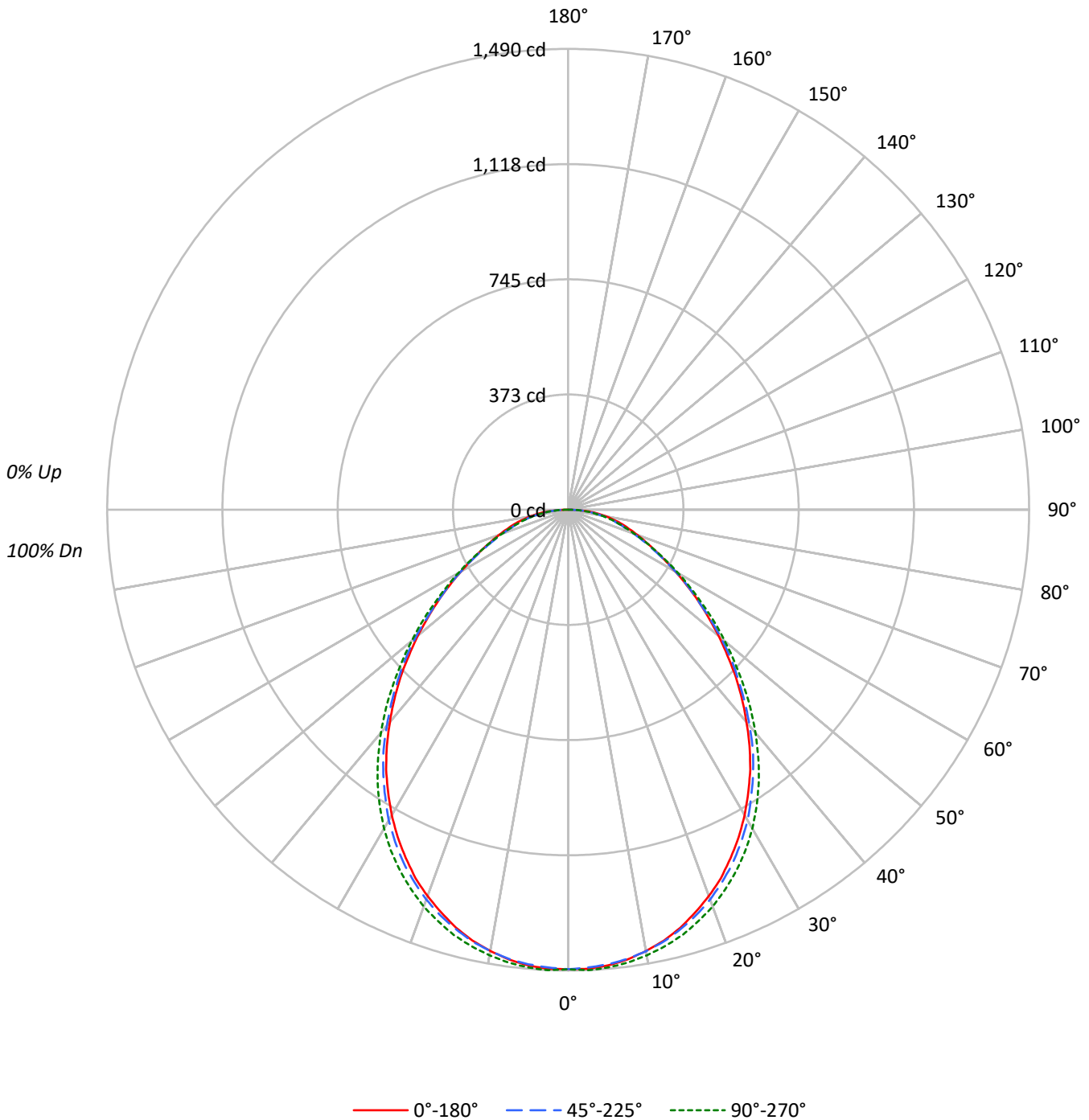
Input Watts (W): 25.11  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3998	3998	3998
5°	3996	3985	4013
10°	3959	3961	3997
15°	3898	3911	3968
20°	3807	3840	3910
25°	3688	3740	3821
30°	3543	3604	3699
35°	3369	3423	3529
40°	3150	3202	3307
45°	2917	2961	3048
50°	2656	2699	2768
55°	2398	2405	2476
60°	2151	2159	2210
65°	1960	1920	1965
70°	1865	1761	1792
75°	1878	1698	1706
80°	1946	1715	1703
85°	2133	1819	1720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.4	4.1
10°-20°	396.5	11.7
20°-30°	580.3	17.1
30°-40°	652.4	19.3
40°-50°	601.7	17.8
50°-60°	463.7	13.7
60°-70°	306.0	9.0
70°-80°	178.1	5.3
80°-90°	64.9	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°	1117.1	33.0
0°-40°	1769.6	52.3
0°-60°	2835.0	83.8
0°-90°	3384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1479	1476	1475	1482	1486	140
15°	1399	1399	1404	1416	1424	394
25°	1242	1248	1260	1277	1287	571
35°	1026	1030	1042	1063	1074	639
45°	766	767	778	794	801	590
55°	511	510	513	521	528	459
65°	308	306	302	304	309	309
75°	181	173	163	160	164	190
85°	69	68	59	54	56	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1485.6	1485.6	1485.6	1485.6	1485.6
2.5°	1485.6	1482.4	1481.7	1487.2	1490.3
5°	1479.3	1476.2	1475.4	1482.4	1485.6
7.5°	1466.7	1464.4	1465.2	1473.0	1477.0
10°	1448.7	1447.9	1449.5	1458.1	1462.8
12.5°	1427.5	1426.7	1429.8	1439.3	1445.5
15°	1399.2	1399.2	1403.9	1416.5	1424.3
17.5°	1365.5	1367.8	1374.9	1387.4	1396.1
20°	1329.3	1331.7	1341.1	1355.2	1365.5
22.5°	1289.3	1292.4	1301.9	1319.1	1327.8
25°	1242.2	1248.5	1259.5	1276.7	1286.9
27.5°	1193.5	1200.6	1210.8	1232.0	1241.4
30°	1140.1	1144.8	1159.7	1179.4	1190.4
32.5°	1083.6	1088.3	1100.8	1124.4	1133.8
35°	1025.5	1030.2	1042.0	1063.2	1074.1
37.5°	962.6	966.6	980.7	997.2	1009.0
40°	896.7	902.2	911.6	931.2	941.4
42.5°	832.3	834.7	844.9	864.5	872.4
45°	766.4	767.1	778.1	793.8	800.9
47.5°	698.0	699.6	713.0	722.4	729.4
50°	634.4	635.2	644.6	653.3	661.1
52.5°	570.8	570.8	575.5	585.0	595.2
55°	511.2	510.4	512.7	521.4	527.7
57.5°	454.6	453.8	457.0	462.5	467.2
60°	399.7	398.1	401.2	404.4	410.7
62.5°	351.0	352.6	348.6	353.3	358.0
65°	307.8	306.2	301.5	303.9	308.6
67.5°	270.9	268.5	260.7	262.3	267.8
70°	237.1	232.4	223.8	223.8	227.7
72.5°	206.5	201.8	190.8	191.6	193.2
75°	180.6	172.7	163.3	160.2	164.1
77.5°	152.3	146.0	137.4	135.1	136.6
80°	125.6	120.9	110.7	107.6	109.9
82.5°	99.7	95.8	84.0	81.7	82.4
85°	69.1	68.3	58.9	54.2	55.7
87.5°	36.9	37.7	30.6	27.5	29.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)