

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: P291952

Luminaire Tested: **22GR-LD5-36-F125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P291952  
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-LD5-36-F125-UNV-L83050-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3835.0 lumens  
Efficiency: N/A  
Efficacy: 130.1 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

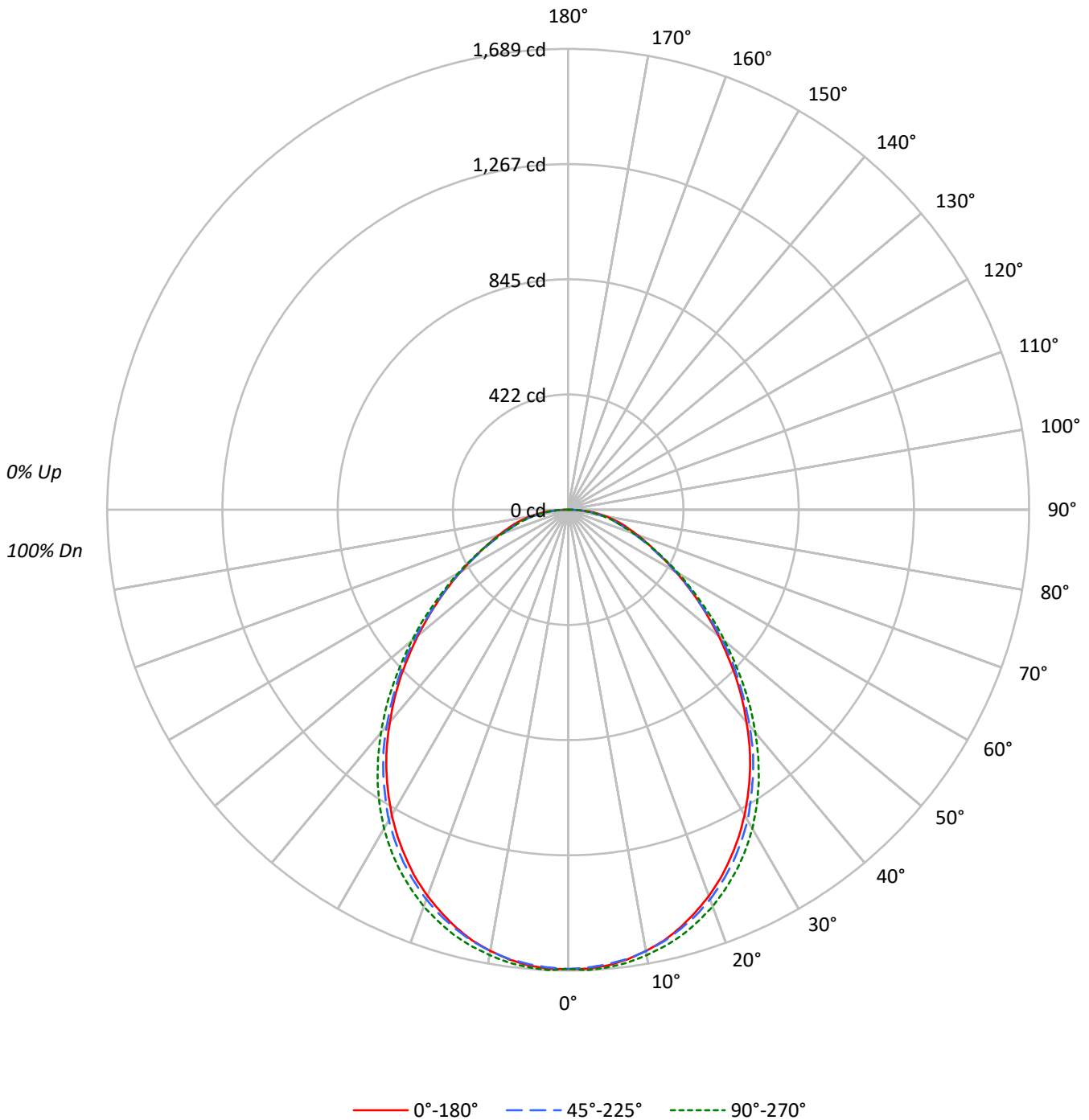
Input Watts (W): 29.481  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4531	4531	4531
5°	4529	4517	4548
10°	4486	4488	4530
15°	4418	4432	4497
20°	4314	4353	4431
25°	4180	4238	4331
30°	4015	4084	4192
35°	3818	3879	3999
40°	3570	3629	3748
45°	3305	3356	3454
50°	3010	3059	3136
55°	2718	2726	2806
60°	2437	2447	2505
65°	2221	2176	2227
70°	2114	1995	2031
75°	2128	1925	1934
80°	2207	1945	1931
85°	2418	2059	1951



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.1	4.1
10°-20°	449.3	11.7
20°-30°	657.6	17.1
30°-40°	739.4	19.3
40°-50°	681.9	17.8
50°-60°	525.5	13.7
60°-70°	346.8	9.0
70°-80°	201.8	5.3
80°-90°	73.5	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°	1266.0	33.0
0°-40°	2005.4	52.3
0°-60°	3212.8	83.8
0°-90°	3835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3835.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1676	1673	1672	1680	1684	159
15°	1586	1586	1591	1605	1614	446
25°	1408	1415	1427	1447	1458	647
35°	1162	1168	1181	1205	1217	725
45°	868	869	882	900	908	669
55°	579	578	581	591	598	520
65°	349	347	342	344	350	350
75°	205	196	185	182	186	216
85°	78	77	67	61	63	83
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1683.6	1683.6	1683.6	1683.6	1683.6
2.5°	1683.6	1680.0	1679.1	1685.4	1688.9
5°	1676.5	1672.9	1672.0	1680.0	1683.6
7.5°	1662.2	1659.6	1660.4	1669.3	1673.8
10°	1641.8	1640.9	1642.6	1652.4	1657.8
12.5°	1617.7	1616.8	1620.4	1631.1	1638.2
15°	1585.7	1585.7	1591.0	1605.3	1614.2
17.5°	1547.4	1550.1	1558.1	1572.4	1582.1
20°	1506.5	1509.2	1519.9	1535.9	1547.4
22.5°	1461.1	1464.7	1475.4	1494.9	1504.7
25°	1407.7	1414.8	1427.3	1446.9	1458.5
27.5°	1352.6	1360.6	1372.1	1396.2	1406.8
30°	1292.1	1297.4	1314.3	1336.5	1349.0
32.5°	1228.0	1233.3	1247.6	1274.3	1284.9
35°	1162.1	1167.5	1180.8	1204.8	1217.3
37.5°	1090.9	1095.4	1111.4	1130.1	1143.4
40°	1016.2	1022.4	1033.1	1055.4	1066.9
42.5°	943.2	945.9	957.5	979.7	988.6
45°	868.5	869.4	881.8	899.6	907.6
47.5°	791.1	792.8	808.0	818.7	826.7
50°	719.0	719.9	730.6	740.3	749.2
52.5°	646.9	646.9	652.3	662.9	674.5
55°	579.3	578.4	581.1	590.9	598.0
57.5°	515.2	514.3	517.9	524.1	529.5
60°	452.9	451.1	454.7	458.3	465.4
62.5°	397.8	399.5	395.1	400.4	405.8
65°	348.8	347.0	341.7	344.4	349.7
67.5°	307.0	304.3	295.4	297.2	303.4
70°	268.7	263.4	253.6	253.6	258.1
72.5°	234.0	228.7	216.2	217.1	218.9
75°	204.7	195.8	185.1	181.5	186.0
77.5°	172.6	165.5	155.7	153.1	154.8
80°	142.4	137.0	125.5	121.9	124.6
82.5°	113.0	108.6	95.2	92.5	93.4
85°	78.3	77.4	66.7	61.4	63.2
87.5°	41.8	42.7	34.7	31.1	32.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)