

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: P292104

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292104  
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-L92765-W2A1-U-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3396.0 lumens  
Efficiency: N/A  
Efficacy: 117.8 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

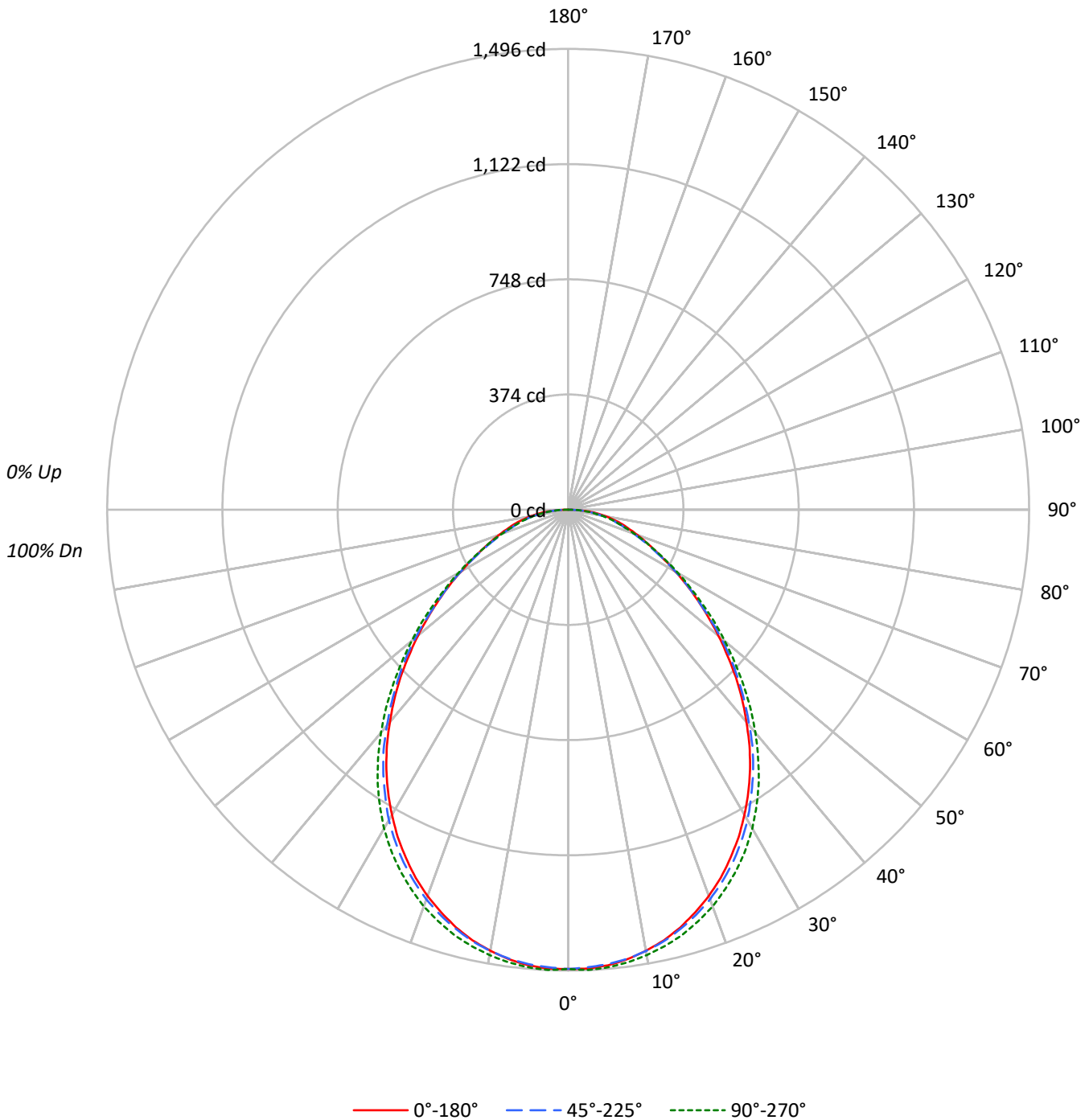
Input Watts (W): 28.83  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	4012	4012	4012
5°	4010	3999	4027
10°	3972	3975	4011
15°	3912	3925	3982
20°	3820	3854	3924
25°	3701	3753	3835
30°	3555	3616	3712
35°	3381	3435	3541
40°	3161	3214	3319
45°	2927	2972	3059
50°	2665	2708	2778
55°	2407	2414	2484
60°	2159	2167	2218
65°	1967	1927	1972
70°	1873	1767	1798
75°	1884	1704	1712
80°	1954	1722	1709
85°	2140	1825	1726



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.9	4.1
10°-20°	397.9	11.7
20°-30°	582.4	17.1
30°-40°	654.7	19.3
40°-50°	603.8	17.8
50°-60°	465.4	13.7
60°-70°	307.1	9.0
70°-80°	178.7	5.3
80°-90°	65.1	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°	1121.1	33.0
0°-40°	1775.8	52.3
0°-60°	2845.1	83.8
0°-90°	3396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3396.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1491	1491	1491	1491	1491	
5°	1485	1481	1481	1488	1491	141
15°	1404	1404	1409	1422	1429	395
25°	1247	1253	1264	1281	1292	573
35°	1029	1034	1046	1067	1078	642
45°	769	770	781	797	804	592
55°	513	512	515	523	530	460
65°	309	307	303	305	310	310
75°	181	173	164	161	165	191
85°	69	69	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°	1490.9	1490.9	1490.9	1490.9	1490.9
2.5°	1490.9	1487.7	1486.9	1492.4	1495.6
5°	1484.6	1481.4	1480.6	1487.7	1490.9
7.5°	1471.9	1469.6	1470.4	1478.3	1482.2
10°	1453.8	1453.0	1454.6	1463.3	1468.0
12.5°	1432.5	1431.8	1434.9	1444.4	1450.7
15°	1404.2	1404.2	1408.9	1421.5	1429.4
17.5°	1370.3	1372.7	1379.8	1392.4	1401.0
20°	1334.1	1336.4	1345.9	1360.1	1370.3
22.5°	1293.9	1297.0	1306.5	1323.8	1332.5
25°	1246.6	1252.9	1263.9	1281.3	1291.5
27.5°	1197.7	1204.8	1215.1	1236.3	1245.8
30°	1144.1	1148.9	1163.8	1183.5	1194.6
32.5°	1087.4	1092.1	1104.7	1128.4	1137.8
35°	1029.1	1033.8	1045.6	1066.9	1078.0
37.5°	966.1	970.0	984.2	1000.7	1012.6
40°	899.9	905.4	914.8	934.5	944.8
42.5°	835.3	837.6	847.9	867.6	875.4
45°	769.1	769.9	780.9	796.6	803.7
47.5°	700.5	702.1	715.5	724.9	732.0
50°	636.7	637.5	646.9	655.6	663.5
52.5°	572.9	572.9	577.6	587.0	597.3
55°	513.0	512.2	514.6	523.2	529.5
57.5°	456.2	455.5	458.6	464.1	468.8
60°	401.1	399.5	402.7	405.8	412.1
62.5°	352.2	353.8	349.9	354.6	359.3
65°	308.9	307.3	302.6	304.9	309.7
67.5°	271.9	269.5	261.6	263.2	268.7
70°	238.0	233.2	224.6	224.6	228.5
72.5°	207.2	202.5	191.5	192.3	193.8
75°	181.2	173.4	163.9	160.7	164.7
77.5°	152.9	146.6	137.9	135.5	137.1
80°	126.1	121.3	111.1	108.0	110.3
82.5°	100.1	96.1	84.3	81.9	82.7
85°	69.3	68.6	59.1	54.4	55.9
87.5°	37.0	37.8	30.7	27.6	29.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)