

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: P292003

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292003  
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-L82765-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: 3611.0 lumens  
Efficiency: N/A  
Efficacy: 126.9 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

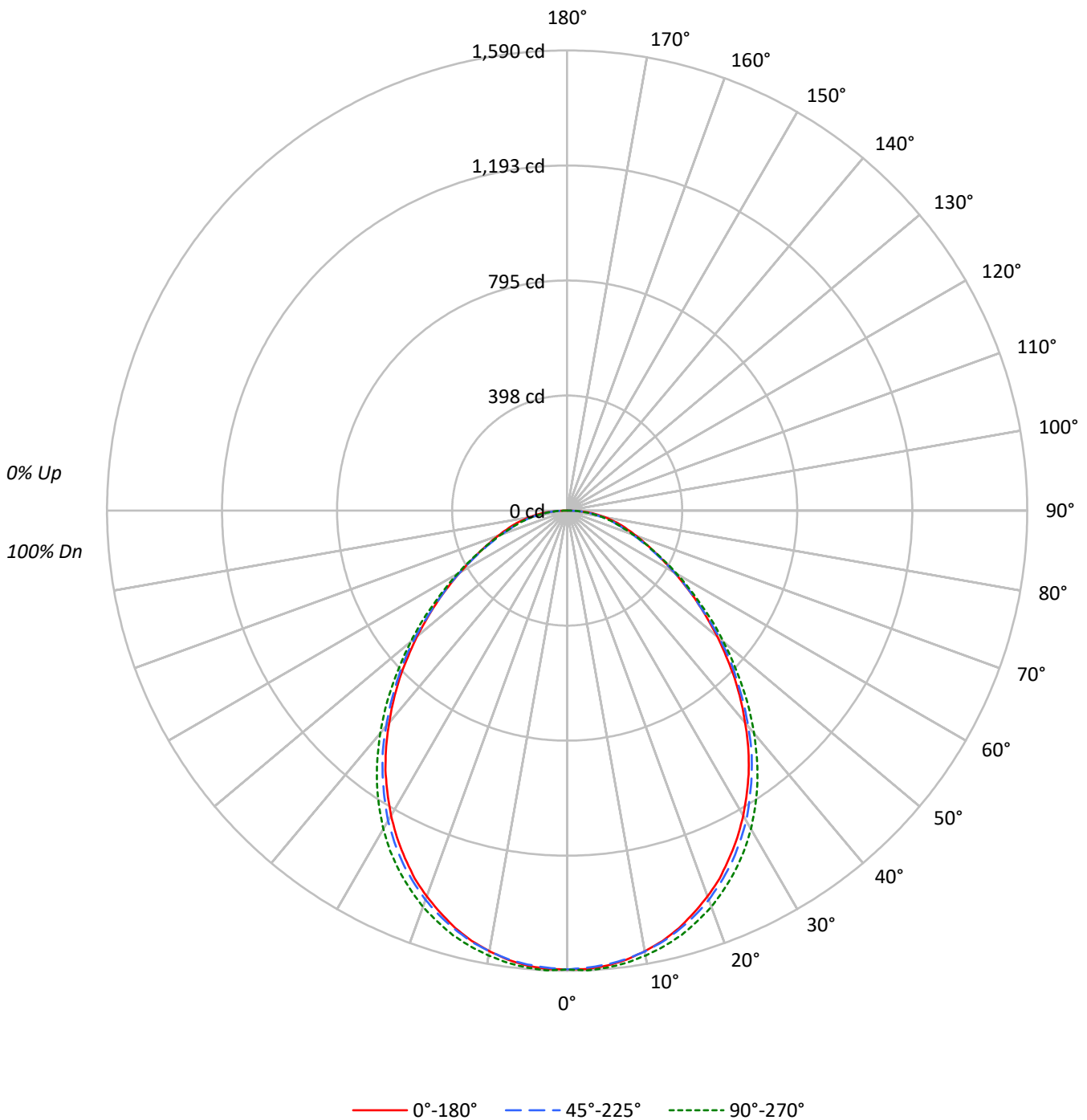
Input Watts (W): 28.458  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4266	4266	4266
5°	4264	4253	4282
10°	4224	4226	4265
15°	4160	4174	4234
20°	4062	4098	4173
25°	3936	3990	4078
30°	3780	3845	3947
35°	3595	3652	3765
40°	3361	3417	3529
45°	3112	3160	3252
50°	2834	2880	2954
55°	2559	2567	2641
60°	2295	2304	2358
65°	2091	2048	2097
70°	1991	1879	1912
75°	2004	1812	1821
80°	2078	1830	1818
85°	2276	1939	1837



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	149.8	4.1
10°-20°	423.1	11.7
20°-30°	619.2	17.1
30°-40°	696.2	19.3
40°-50°	642.1	17.8
50°-60°	494.8	13.7
60°-70°	326.5	9.0
70°-80°	190.0	5.3
80°-90°	69.2	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°	1192.1	33.0
0°-40°	1888.3	52.3
0°-60°	3025.2	83.8
0°-90°	3611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1585	1585	1585	1585	1585	
5°	1578	1575	1574	1582	1585	150
15°	1493	1493	1498	1512	1520	420
25°	1326	1332	1344	1362	1373	610
35°	1094	1099	1112	1134	1146	682
45°	818	819	830	847	855	630
55°	546	545	547	556	563	489
65°	328	327	322	324	329	329
75°	193	184	174	171	175	203
85°	74	73	63	58	60	78
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1585.2	1585.2	1585.2	1585.2	1585.2
2.5°	1585.2	1581.9	1581.1	1586.9	1590.3
5°	1578.5	1575.2	1574.4	1581.9	1585.2
7.5°	1565.1	1562.6	1563.5	1571.8	1576.0
10°	1545.9	1545.0	1546.7	1555.9	1560.9
12.5°	1523.2	1522.4	1525.8	1535.8	1542.5
15°	1493.1	1493.1	1498.1	1511.5	1519.9
17.5°	1457.1	1459.6	1467.1	1480.5	1489.7
20°	1418.5	1421.0	1431.1	1446.2	1457.1
22.5°	1375.8	1379.1	1389.2	1407.6	1416.8
25°	1325.5	1332.2	1343.9	1362.4	1373.3
27.5°	1273.6	1281.1	1292.0	1314.6	1324.7
30°	1216.6	1221.6	1237.5	1258.5	1270.2
32.5°	1156.3	1161.3	1174.7	1199.8	1209.9
35°	1094.3	1099.3	1111.8	1134.5	1146.2
37.5°	1027.2	1031.4	1046.5	1064.1	1076.7
40°	956.8	962.7	972.8	993.7	1004.6
42.5°	888.1	890.7	901.5	922.5	930.9
45°	817.8	818.6	830.3	847.1	854.6
47.5°	744.9	746.5	760.8	770.8	778.4
50°	677.0	677.8	687.9	697.1	705.5
52.5°	609.1	609.1	614.2	624.2	635.1
55°	545.5	544.6	547.1	556.3	563.0
57.5°	485.1	484.3	487.6	493.5	498.5
60°	426.5	424.8	428.1	431.5	438.2
62.5°	374.5	376.2	372.0	377.0	382.1
65°	328.4	326.8	321.7	324.3	329.3
67.5°	289.1	286.6	278.2	279.8	285.7
70°	253.0	248.0	238.8	238.8	243.0
72.5°	220.4	215.3	203.6	204.4	206.1
75°	192.7	184.3	174.3	170.9	175.1
77.5°	162.5	155.8	146.6	144.1	145.8
80°	134.1	129.0	118.1	114.8	117.3
82.5°	106.4	102.2	89.7	87.1	88.0
85°	73.7	72.9	62.8	57.8	59.5
87.5°	39.4	40.2	32.7	29.3	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)