

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: P292016

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292016  
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-LD5-40-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: 4252.0 lumens  
Efficiency: N/A  
Efficacy: 127.7 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

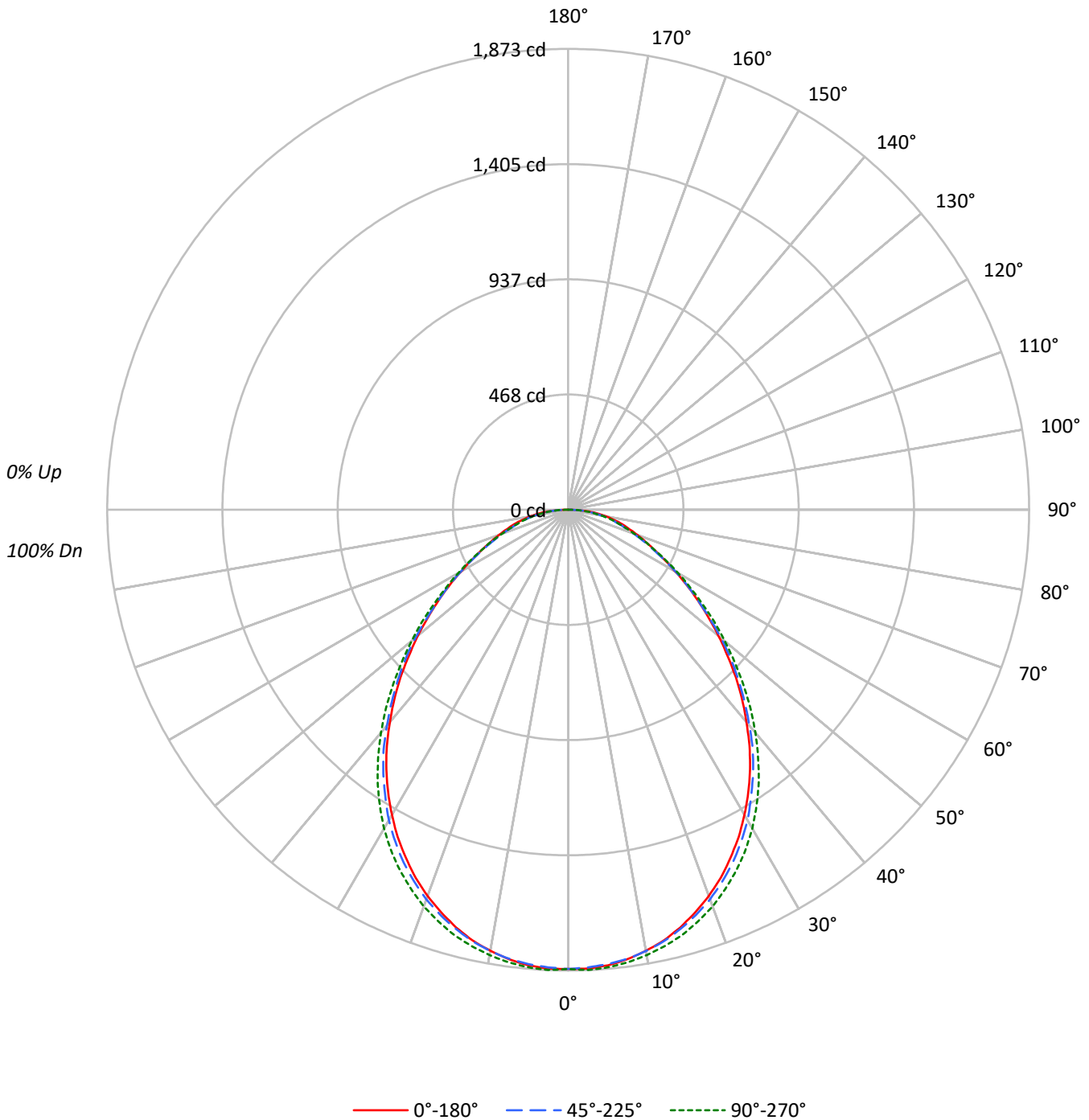
Input Watts (W): 33.294  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5023	5023	5023
5°	5021	5008	5042
10°	4974	4977	5022
15°	4898	4914	4986
20°	4783	4826	4913
25°	4634	4699	4801
30°	4451	4528	4648
35°	4233	4301	4434
40°	3958	4024	4155
45°	3664	3721	3830
50°	3337	3391	3478
55°	3013	3022	3111
60°	2703	2714	2777
65°	2462	2413	2469
70°	2345	2212	2251
75°	2359	2133	2144
80°	2447	2156	2140
85°	2680	2285	2161



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	176.4	4.1
10°-20°	498.2	11.7
20°-30°	729.1	17.1
30°-40°	819.8	19.3
40°-50°	756.0	17.8
50°-60°	582.7	13.7
60°-70°	384.5	9.0
70°-80°	223.8	5.3
80°-90°	81.5	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°	1403.7	33.0
0°-40°	2223.5	52.3
0°-60°	3562.2	83.8
0°-90°	4252.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4252.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1867	1867	1867	1867	1867	
5°	1859	1855	1854	1863	1867	176
15°	1758	1758	1764	1780	1790	495
25°	1561	1569	1582	1604	1617	718
35°	1288	1294	1309	1336	1350	803
45°	963	964	978	998	1006	741
55°	642	641	644	655	663	576
65°	387	385	379	382	388	388
75°	227	217	205	201	206	239
85°	87	86	74	68	70	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1866.6	1866.6	1866.6	1866.6	1866.6
2.5°	1866.6	1862.7	1861.7	1868.6	1872.6
5°	1858.8	1854.8	1853.8	1862.7	1866.6
7.5°	1843.0	1840.0	1841.0	1850.9	1855.8
10°	1820.3	1819.3	1821.3	1832.1	1838.0
12.5°	1793.6	1792.7	1796.6	1808.4	1816.3
15°	1758.1	1758.1	1764.0	1779.8	1789.7
17.5°	1715.7	1718.7	1727.5	1743.3	1754.2
20°	1670.3	1673.3	1685.1	1702.9	1715.7
22.5°	1620.0	1623.9	1635.8	1657.5	1668.3
25°	1560.8	1568.7	1582.5	1604.2	1617.0
27.5°	1499.6	1508.5	1521.3	1548.0	1559.8
30°	1432.5	1438.5	1457.2	1481.9	1495.7
32.5°	1361.5	1367.4	1383.2	1412.8	1424.6
35°	1288.5	1294.4	1309.2	1335.9	1349.7
37.5°	1209.6	1214.5	1232.3	1253.0	1267.8
40°	1126.7	1133.6	1145.4	1170.1	1182.9
42.5°	1045.8	1048.8	1061.6	1086.2	1096.1
45°	962.9	963.9	977.7	997.5	1006.3
47.5°	877.1	879.1	895.8	907.7	916.6
50°	797.2	798.2	810.0	820.9	830.7
52.5°	717.3	717.3	723.2	735.0	747.8
55°	642.3	641.3	644.2	655.1	663.0
57.5°	571.2	570.3	574.2	581.1	587.0
60°	502.2	500.2	504.2	508.1	516.0
62.5°	441.0	443.0	438.1	444.0	449.9
65°	386.7	384.8	378.9	381.8	387.7
67.5°	340.4	337.4	327.6	329.5	336.4
70°	298.0	292.0	281.2	281.2	286.1
72.5°	259.5	253.6	239.7	240.7	242.7
75°	226.9	217.1	205.2	201.3	206.2
77.5°	191.4	183.5	172.7	169.7	171.7
80°	157.9	151.9	139.1	135.2	138.1
82.5°	125.3	120.4	105.6	102.6	103.6
85°	86.8	85.8	74.0	68.1	70.0
87.5°	46.4	47.4	38.5	34.5	36.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)