

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: P292015

Luminaire Tested: **22GR-LD5-40-F125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292015  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4240.0 lumens  
Efficiency: N/A  
Efficacy: 127.4 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

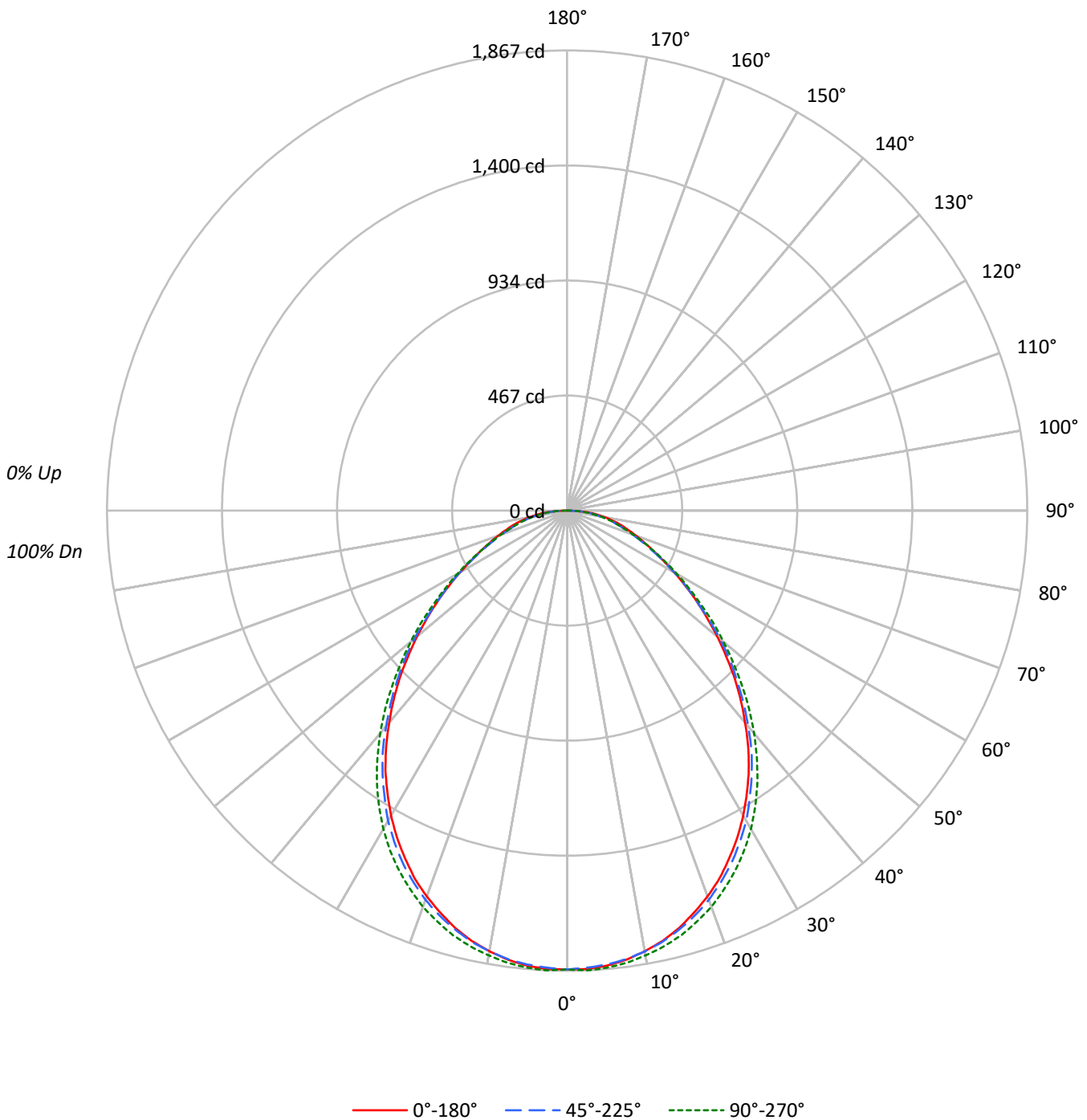
Input Watts (W): 33.294  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5009	5009	5009
5°	5007	4994	5028
10°	4960	4962	5008
15°	4884	4901	4972
20°	4770	4812	4899
25°	4621	4685	4788
30°	4439	4515	4635
35°	4221	4289	4421
40°	3947	4012	4144
45°	3654	3710	3819
50°	3328	3381	3468
55°	3005	3014	3102
60°	2695	2706	2769
65°	2456	2406	2462
70°	2338	2206	2245
75°	2353	2127	2138
80°	2439	2149	2134
85°	2674	2279	2158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.9	4.1
10°-20°	496.8	11.7
20°-30°	727.1	17.1
30°-40°	817.5	19.3
40°-50°	753.9	17.8
50°-60°	581.0	13.7
60°-70°	383.4	9.0
70°-80°	223.2	5.3
80°-90°	81.3	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°	1399.7	33.0
0°-40°	2217.2	52.3
0°-60°	3552.1	83.8
0°-90°	4240.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4240.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1854	1850	1849	1857	1861	176
15°	1753	1753	1759	1775	1785	493
25°	1556	1564	1578	1600	1612	716
35°	1285	1291	1306	1332	1346	801
45°	960	961	975	995	1004	739
55°	640	640	642	653	661	575
65°	386	384	378	381	387	387
75°	226	216	205	201	206	238
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°	1861.4	1861.4	1861.4	1861.4	1861.4
2.5°	1861.4	1857.4	1856.5	1863.3	1867.3
5°	1853.5	1849.6	1848.6	1857.4	1861.4
7.5°	1837.8	1834.8	1835.8	1845.6	1850.6
10°	1815.1	1814.2	1816.1	1826.9	1832.8
12.5°	1788.6	1787.6	1791.5	1803.3	1811.2
15°	1753.2	1753.2	1759.1	1774.8	1784.6
17.5°	1710.9	1713.8	1722.7	1738.4	1749.2
20°	1665.6	1668.5	1680.4	1698.1	1710.9
22.5°	1615.4	1619.4	1631.2	1652.8	1663.6
25°	1556.4	1564.3	1578.0	1599.7	1612.5
27.5°	1495.4	1504.3	1517.0	1543.6	1555.4
30°	1428.5	1434.4	1453.1	1477.7	1491.5
32.5°	1357.7	1363.6	1379.3	1408.8	1420.6
35°	1284.9	1290.8	1305.5	1332.1	1345.9
37.5°	1206.2	1211.1	1228.8	1249.4	1264.2
40°	1123.5	1130.4	1142.2	1166.8	1179.6
42.5°	1042.8	1045.8	1058.6	1083.2	1093.0
45°	960.2	961.2	975.0	994.6	1003.5
47.5°	874.6	876.6	893.3	905.1	914.0
50°	794.9	795.9	807.7	818.5	828.4
52.5°	715.2	715.2	721.1	732.9	745.7
55°	640.5	639.5	642.4	653.3	661.1
57.5°	569.6	568.6	572.6	579.5	585.4
60°	500.8	498.8	502.7	506.7	514.5
62.5°	439.8	441.7	436.8	442.7	448.6
65°	385.7	383.7	377.8	380.7	386.6
67.5°	339.4	336.5	326.6	328.6	335.5
70°	297.1	291.2	280.4	280.4	285.3
72.5°	258.7	252.8	239.1	240.1	242.0
75°	226.3	216.4	204.6	200.7	205.6
77.5°	190.9	183.0	172.2	169.2	171.2
80°	157.4	151.5	138.7	134.8	137.7
82.5°	124.9	120.0	105.3	102.3	103.3
85°	86.6	85.6	73.8	67.9	69.9
87.5°	46.2	47.2	38.4	34.4	36.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)