

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: P475958

Luminaire Tested: **22GR-LD5-40-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475958  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-F125-UNV-L840-CD1-U  
Description: GR 2'X2' LED TROFFER w/ F125 LENS  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4190.1 lumens  
Efficiency: N/A  
Efficacy: 129.3 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

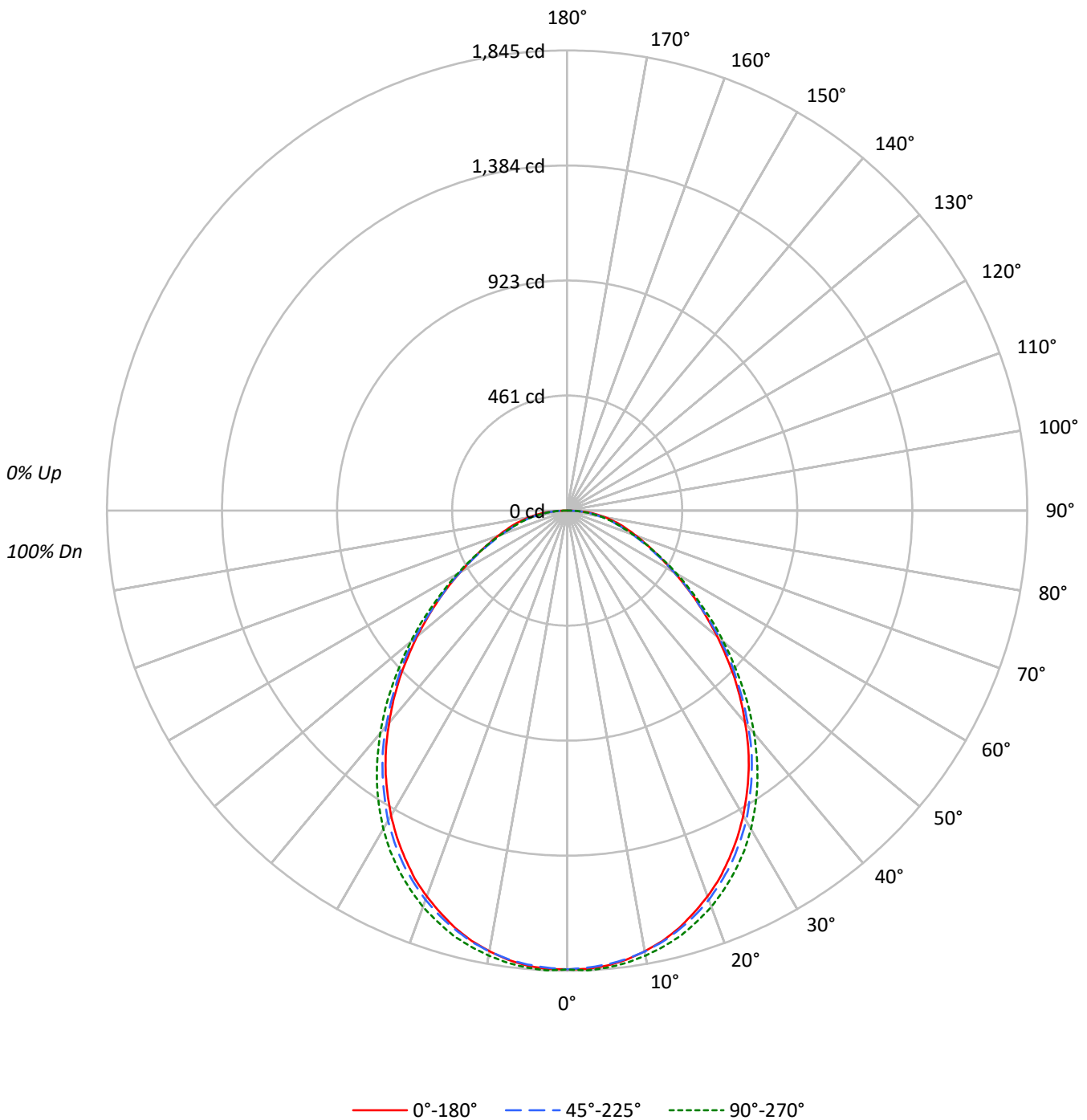
Input Watts (W): 32.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4950	4950	4950
5°	4948	4935	4969
10°	4902	4905	4949
15°	4827	4843	4914
20°	4714	4755	4842
25°	4567	4630	4731
30°	4386	4462	4580
35°	4171	4238	4369
40°	3901	3965	4095
45°	3611	3667	3774
50°	3289	3342	3427
55°	2970	2978	3065
60°	2664	2673	2737
65°	2427	2376	2432
70°	2309	2179	2218
75°	2324	2102	2113
80°	2411	2125	2109
85°	2646	2248	2127



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.8	4.1
10°-20°	490.9	11.7
20°-30°	718.5	17.1
30°-40°	807.9	19.3
40°-50°	745.0	17.8
50°-60°	574.2	13.7
60°-70°	378.9	9.0
70°-80°	220.5	5.3
80°-90°	80.3	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°	1383.3	33.0
0°-40°	2191.1	52.3
0°-60°	3510.4	83.8
0°-90°	4190.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4190.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1832	1828	1827	1836	1839	174
15°	1733	1733	1738	1754	1764	488
25°	1538	1546	1560	1581	1594	707
35°	1270	1276	1290	1316	1330	792
45°	949	950	964	983	992	731
55°	633	632	635	646	653	568
65°	381	379	373	376	382	382
75°	224	214	202	198	203	235
85°	86	85	73	67	69	91
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1839.4	1839.4	1839.4	1839.4	1839.4
2.5°	1839.4	1835.5	1834.5	1841.4	1845.3
5°	1831.7	1827.8	1826.8	1835.5	1839.4
7.5°	1816.2	1813.1	1814.2	1824.0	1828.8
10°	1793.9	1792.8	1794.9	1805.4	1811.3
12.5°	1767.6	1766.6	1770.5	1782.0	1790.0
15°	1732.6	1732.6	1738.3	1754.0	1763.8
17.5°	1690.7	1693.5	1702.3	1718.0	1728.5
20°	1646.0	1649.0	1660.6	1678.1	1690.7
22.5°	1596.3	1600.4	1612.0	1633.4	1644.2
25°	1538.2	1545.9	1559.5	1580.9	1593.5
27.5°	1477.7	1486.5	1499.1	1525.6	1537.2
30°	1411.6	1417.5	1436.1	1460.2	1473.9
32.5°	1341.7	1347.6	1363.0	1392.3	1403.9
35°	1269.6	1275.6	1290.2	1316.5	1330.1
37.5°	1192.0	1196.8	1214.3	1234.7	1249.3
40°	1110.4	1117.1	1128.7	1153.1	1165.7
42.5°	1030.7	1033.5	1046.1	1070.6	1080.1
45°	948.9	949.9	963.5	982.8	991.6
47.5°	864.3	866.3	882.8	894.4	903.1
50°	785.6	786.6	798.2	809.0	818.7
52.5°	706.8	706.8	712.8	724.3	736.9
55°	633.0	632.0	634.8	645.6	653.3
57.5°	563.1	562.0	565.9	572.6	578.5
60°	494.9	492.8	496.7	500.8	508.5
62.5°	434.7	436.5	431.6	437.5	443.4
65°	381.2	379.1	373.2	376.3	382.0
67.5°	335.4	332.6	322.8	324.6	331.6
70°	293.5	287.8	277.0	277.0	281.9
72.5°	255.7	249.8	236.1	237.2	239.2
75°	223.5	214.0	202.2	198.3	203.2
77.5°	188.5	180.8	170.0	167.2	169.3
80°	155.6	149.7	137.1	133.2	136.1
82.5°	123.5	118.6	103.9	101.1	102.1
85°	85.7	84.6	72.8	67.1	68.9
87.5°	45.8	46.6	37.8	34.0	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)