

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: P475946

Luminaire Tested: **22GR-LD5-40-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P475946
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-L835-CD1-U
Description: GR 2'X2' LED TROFFER w/ F125 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4112.0 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

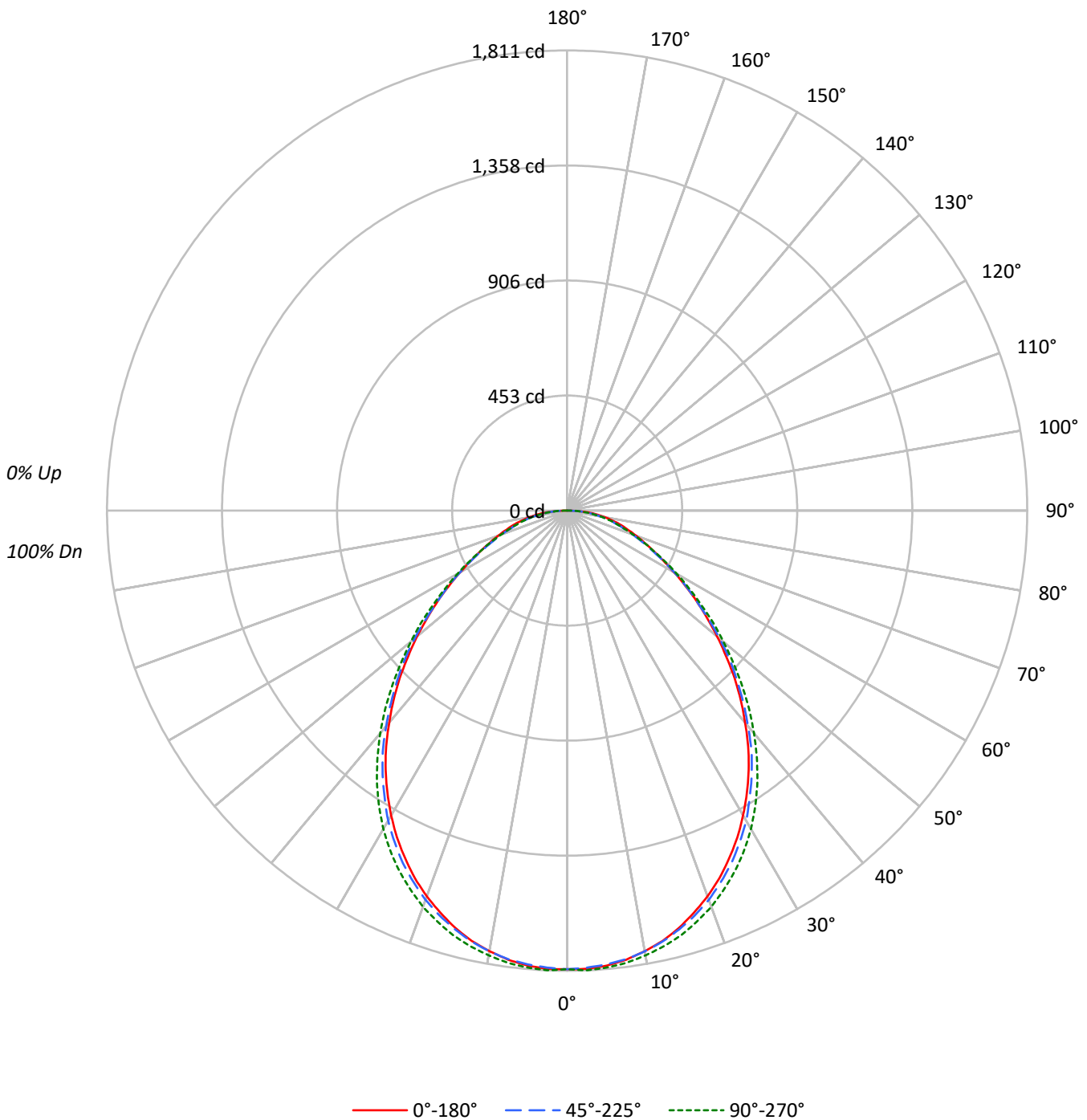
Input Watts (W): 32.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4857	4857	4857
5°	4856	4843	4876
10°	4810	4813	4857
15°	4737	4752	4822
20°	4626	4667	4751
25°	4482	4544	4643
30°	4305	4379	4494
35°	4093	4160	4288
40°	3828	3891	4019
45°	3544	3599	3703
50°	3227	3279	3364
55°	2914	2923	3008
60°	2614	2623	2686
65°	2382	2332	2387
70°	2266	2139	2177
75°	2281	2063	2073
80°	2366	2084	2069
85°	2597	2205	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.5	4.1
10°-20°	481.8	11.7
20°-30°	705.1	17.1
30°-40°	792.8	19.3
40°-50°	731.1	17.8
50°-60°	563.5	13.7
60°-70°	371.8	9.0
70°-80°	216.4	5.3
80°-90°	78.8	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°	1357.5	33.0
0°-40°	2150.3	52.3
0°-60°	3444.9	83.8
0°-90°	4112.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4112.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1805	1805	1805	1805	1805	
5°	1798	1794	1793	1801	1805	170
15°	1700	1700	1706	1721	1731	478
25°	1510	1517	1530	1551	1564	694
35°	1246	1252	1266	1292	1305	777
45°	931	932	946	964	973	717
55°	621	620	623	634	641	557
65°	374	372	366	369	375	375
75°	219	210	198	195	199	231
85°	84	83	71	66	68	89
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1805.1	1805.1	1805.1	1805.1	1805.1
2.5°	1805.1	1801.3	1800.3	1807.1	1810.9
5°	1797.5	1793.7	1792.7	1801.3	1805.1
7.5°	1782.4	1779.3	1780.4	1789.9	1794.7
10°	1760.4	1759.4	1761.4	1771.8	1777.6
12.5°	1734.7	1733.7	1737.4	1748.8	1756.6
15°	1700.3	1700.3	1705.9	1721.3	1730.9
17.5°	1659.2	1662.0	1670.5	1685.9	1696.3
20°	1615.3	1618.3	1629.7	1646.8	1659.2
22.5°	1566.5	1570.6	1581.9	1602.9	1613.5
25°	1509.5	1517.1	1530.5	1551.4	1563.8
27.5°	1450.2	1458.8	1471.1	1497.1	1508.5
30°	1385.3	1391.1	1409.3	1433.0	1446.4
32.5°	1316.6	1322.5	1337.6	1366.4	1377.7
35°	1246.0	1251.8	1266.2	1291.9	1305.3
37.5°	1169.7	1174.5	1191.7	1211.6	1226.0
40°	1089.7	1096.3	1107.6	1131.6	1144.0
42.5°	1011.5	1014.2	1026.6	1050.6	1059.9
45°	931.2	932.2	945.6	964.5	973.1
47.5°	848.1	850.2	866.3	877.7	886.3
50°	770.9	771.9	783.3	793.9	803.5
52.5°	693.7	693.7	699.5	710.8	723.2
55°	621.2	620.2	623.0	633.6	641.2
57.5°	552.6	551.5	555.3	561.9	567.7
60°	485.7	483.6	487.4	491.5	499.0
62.5°	426.6	428.4	423.6	429.4	435.2
65°	374.1	372.1	366.3	369.3	374.9
67.5°	329.2	326.4	316.8	318.6	325.4
70°	288.0	282.5	271.9	271.9	276.7
72.5°	250.9	245.1	231.7	232.7	234.8
75°	219.4	210.0	198.4	194.6	199.4
77.5°	185.0	177.5	166.9	164.1	166.1
80°	152.7	146.9	134.5	130.8	133.5
82.5°	121.2	116.4	102.0	99.2	100.2
85°	84.1	83.0	71.4	65.9	67.6
87.5°	44.9	45.7	37.1	33.3	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)