

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: P476219

Luminaire Tested: **14GR-LD5-40-F125-UNV-L835-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P476219  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14GR-LD5-40-F125-UNV-L835-CD1-U  
Description: GR 1'X4' LED TROFFER w/ F125 LENS  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3972.2 lumens  
Efficiency: N/A  
Efficacy: 126.9 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.13 / 1.23  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

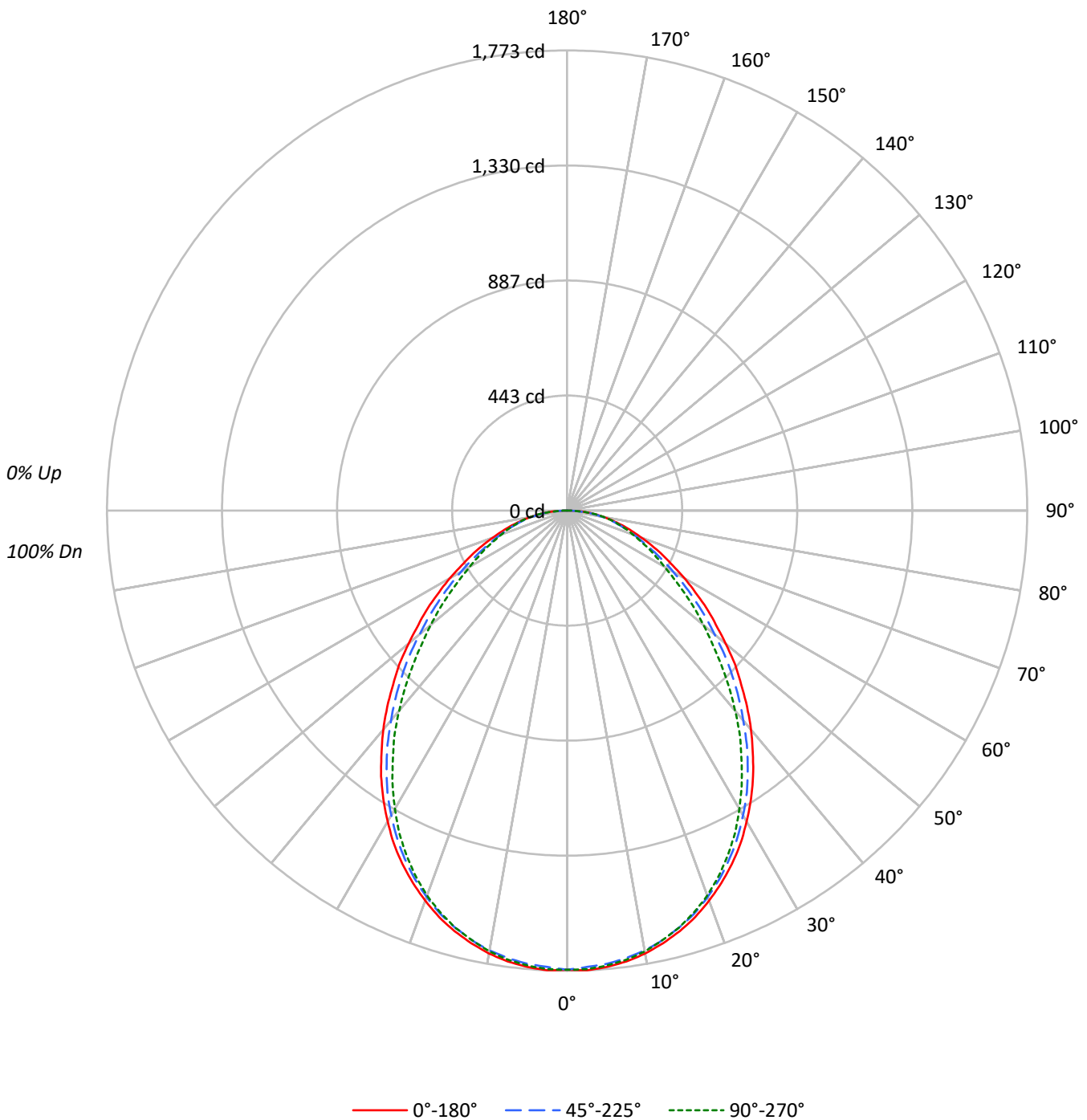
Input Watts (W): 31.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	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	72
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47
6	73	60	52	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42
7	68	55	46	41	66	54	46	40	52	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°	4761	4761	4761
5°	4767	4735	4752
10°	4735	4703	4713
15°	4673	4635	4635
20°	4580	4536	4520
25°	4460	4395	4350
30°	4298	4213	4125
35°	4105	3985	3848
40°	3872	3709	3537
45°	3610	3424	3192
50°	3336	3104	2872
55°	3078	2814	2584
60°	2807	2543	2333
65°	2581	2309	2204
70°	2395	2159	2116
75°	2286	2097	2136
80°	2239	2112	2225
85°	2300	2075	2217



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.9	4.2
10°-20°	469.9	11.8
20°-30°	681.6	17.2
30°-40°	756.8	19.1
40°-50°	692.4	17.4
50°-60°	539.4	13.6
60°-70°	368.5	9.3
70°-80°	220.1	5.5
80°-90°	76.5	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°	1318.4	33.2
0°-40°	2075.2	52.2
0°-60°	3307.0	83.3
0°-90°	3972.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3972.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1769	1769	1769	1769	1769	
5°	1765	1761	1753	1762	1759	167
15°	1678	1673	1664	1670	1664	472
25°	1502	1496	1480	1476	1465	691
35°	1250	1239	1213	1188	1171	780
45°	949	936	900	858	839	733
55°	656	636	600	564	551	586
65°	405	390	363	346	346	404
75°	220	211	202	205	205	233
85°	74	71	67	74	72	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1769.3	1769.3	1769.3	1769.3	1769.3
2.5°	1772.9	1768.4	1760.2	1769.3	1768.4
5°	1764.7	1761.1	1752.9	1762.0	1759.3
7.5°	1752.0	1748.4	1739.3	1749.3	1745.6
10°	1732.9	1728.4	1721.1	1728.4	1724.7
12.5°	1707.5	1702.9	1695.7	1702.0	1695.7
15°	1677.5	1672.9	1663.9	1670.2	1663.9
17.5°	1642.1	1635.7	1628.4	1629.3	1623.9
20°	1599.3	1593.0	1583.9	1583.9	1578.4
22.5°	1553.0	1546.6	1535.7	1532.1	1524.8
25°	1502.1	1495.7	1480.3	1475.8	1464.9
27.5°	1446.7	1436.7	1421.2	1411.2	1400.3
30°	1383.1	1374.9	1355.8	1341.3	1327.6
32.5°	1318.5	1310.4	1288.6	1266.8	1252.2
35°	1249.5	1238.6	1213.1	1187.7	1171.3
37.5°	1175.0	1165.9	1136.8	1105.9	1093.2
40°	1102.3	1090.5	1055.9	1024.1	1006.9
42.5°	1025.9	1013.2	978.7	942.3	923.3
45°	948.7	936.0	899.6	857.8	838.7
47.5°	876.9	860.6	822.4	780.6	757.9
50°	796.9	783.3	741.5	701.5	686.1
52.5°	722.4	709.7	670.6	631.6	617.0
55°	656.1	636.1	599.8	564.3	550.7
57.5°	585.2	568.9	534.3	500.7	487.1
60°	521.6	508.9	472.5	443.5	433.5
62.5°	458.9	448.9	415.3	393.5	387.1
65°	405.3	389.8	362.6	346.2	346.2
67.5°	354.4	339.0	315.3	309.0	303.5
70°	304.4	292.6	274.4	269.0	269.0
72.5°	259.9	249.9	237.2	235.4	239.0
75°	219.9	210.8	201.7	205.4	205.4
77.5°	179.9	173.6	169.9	171.7	175.4
80°	144.5	139.9	136.3	140.9	143.6
82.5°	110.9	106.3	103.6	110.0	109.0
85°	74.5	70.9	67.2	73.6	71.8
87.5°	37.3	35.4	29.1	32.7	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)