

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: P476230

Luminaire Tested: **14GR-LD5-50-F125-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476230
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-F125-UNV-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5161.4 lumens
Efficiency: N/A
Efficacy: 125.9 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

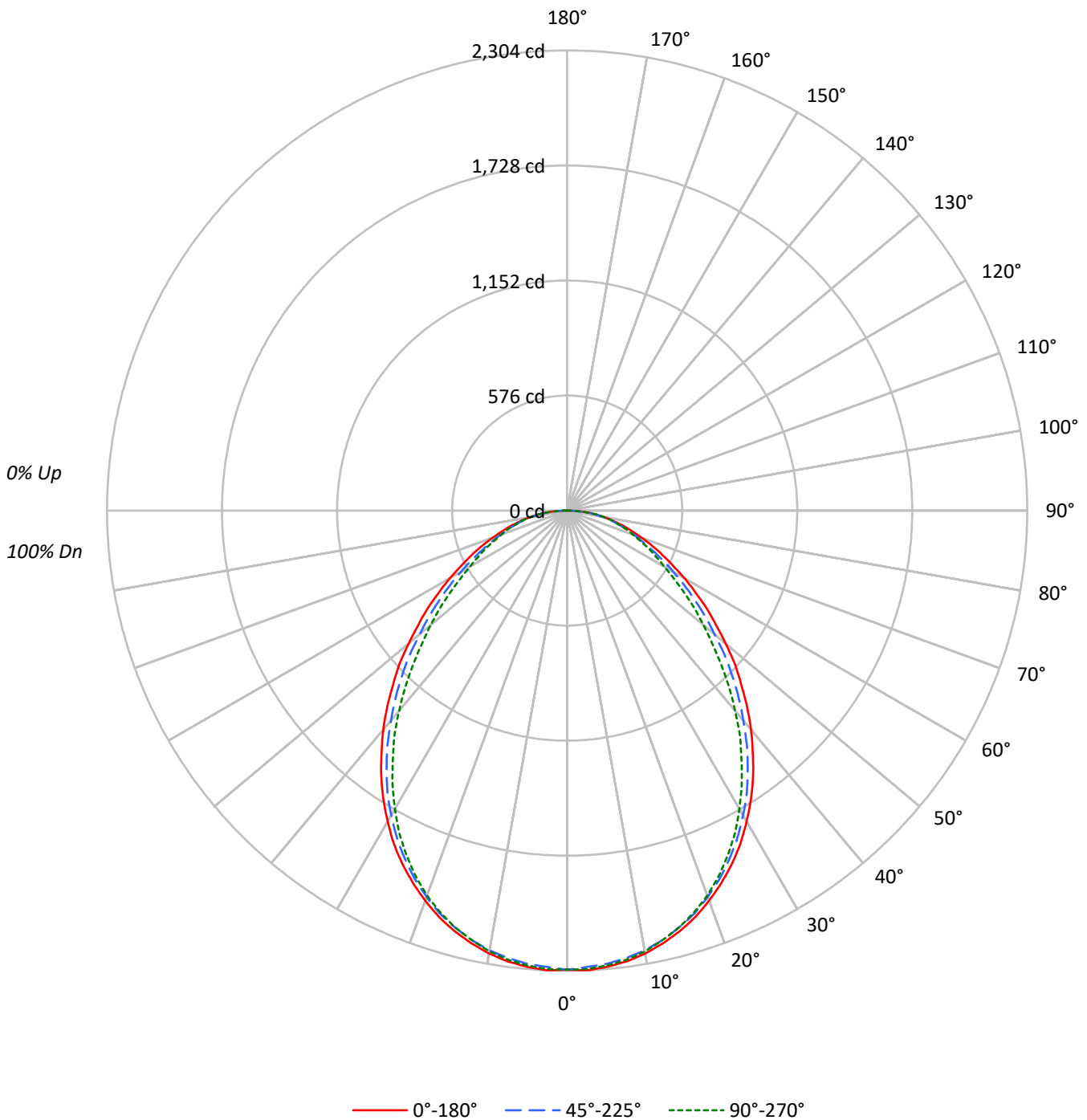
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6187	6187	6187
5°	6194	6153	6175
10°	6153	6111	6124
15°	6072	6023	6023
20°	5951	5894	5873
25°	5795	5711	5652
30°	5584	5474	5360
35°	5334	5179	5000
40°	5031	4820	4596
45°	4691	4449	4148
50°	4335	4034	3732
55°	4000	3656	3357
60°	3648	3305	3031
65°	3353	3000	2865
70°	3113	2806	2750
75°	2972	2725	2775
80°	2909	2744	2892
85°	2989	2699	2881



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	4.2
10°-20°	610.6	11.8
20°-30°	885.7	17.2
30°-40°	983.4	19.1
40°-50°	899.7	17.4
50°-60°	700.9	13.6
60°-70°	478.8	9.3
70°-80°	286.0	5.5
80°-90°	99.5	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°	1713.2	33.2
0°-40°	2696.6	52.2
0°-60°	4297.1	83.3
0°-90°	5161.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5161.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2299	2299	2299	2299	2299	
5°	2293	2288	2278	2290	2286	218
15°	2180	2174	2162	2170	2162	614
25°	1952	1944	1924	1918	1903	897
35°	1624	1609	1576	1543	1522	1013
45°	1233	1216	1169	1115	1090	952
55°	852	827	779	733	716	761
65°	527	507	471	450	450	524
75°	286	274	262	267	267	303
85°	97	92	87	96	93	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.0	2299.0	2299.0	2299.0	2299.0
2.5°	2303.7	2297.8	2287.2	2299.0	2297.8
5°	2293.1	2288.4	2277.7	2289.6	2286.0
7.5°	2276.6	2271.8	2260.0	2273.0	2268.3
10°	2251.8	2245.9	2236.4	2245.9	2241.1
12.5°	2218.7	2212.8	2203.4	2211.6	2203.4
15°	2179.7	2173.8	2162.0	2170.3	2162.0
17.5°	2133.7	2125.4	2116.0	2117.2	2110.1
20°	2078.2	2069.9	2058.1	2058.1	2051.0
22.5°	2018.0	2009.7	1995.5	1990.8	1981.4
25°	1951.8	1943.6	1923.5	1917.6	1903.4
27.5°	1879.8	1866.8	1846.8	1833.8	1819.6
30°	1797.2	1786.5	1761.7	1742.8	1725.1
32.5°	1713.3	1702.7	1674.4	1646.0	1627.1
35°	1623.6	1609.4	1576.4	1543.3	1522.0
37.5°	1526.8	1515.0	1477.2	1437.0	1420.5
40°	1432.3	1416.9	1372.1	1330.8	1308.3
42.5°	1333.1	1316.6	1271.7	1224.5	1199.7
45°	1232.7	1216.2	1169.0	1114.7	1089.9
47.5°	1139.5	1118.2	1068.6	1014.3	984.8
50°	1035.6	1017.8	963.5	911.6	891.5
52.5°	938.7	922.2	871.4	820.6	801.8
55°	852.5	826.6	779.3	733.3	715.6
57.5°	760.4	739.2	694.3	650.6	632.9
60°	677.8	661.2	614.0	576.2	563.2
62.5°	596.3	583.3	539.6	511.3	503.0
65°	526.6	506.6	471.1	449.9	449.9
67.5°	460.5	440.4	409.7	401.5	394.4
70°	395.6	380.2	356.6	349.5	349.5
72.5°	337.7	324.7	308.2	305.8	310.5
75°	285.8	273.9	262.1	266.9	266.9
77.5°	233.8	225.5	220.8	223.2	227.9
80°	187.7	181.8	177.1	183.0	186.6
82.5°	144.1	138.2	134.6	142.9	141.7
85°	96.8	92.1	87.4	95.6	93.3
87.5°	48.4	46.1	37.8	42.5	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)