

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: P476239

Luminaire Tested: **14GR-LD5-50-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476239
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-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ F125 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5166.5 lumens
Efficiency: N/A
Efficacy: 126.0 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

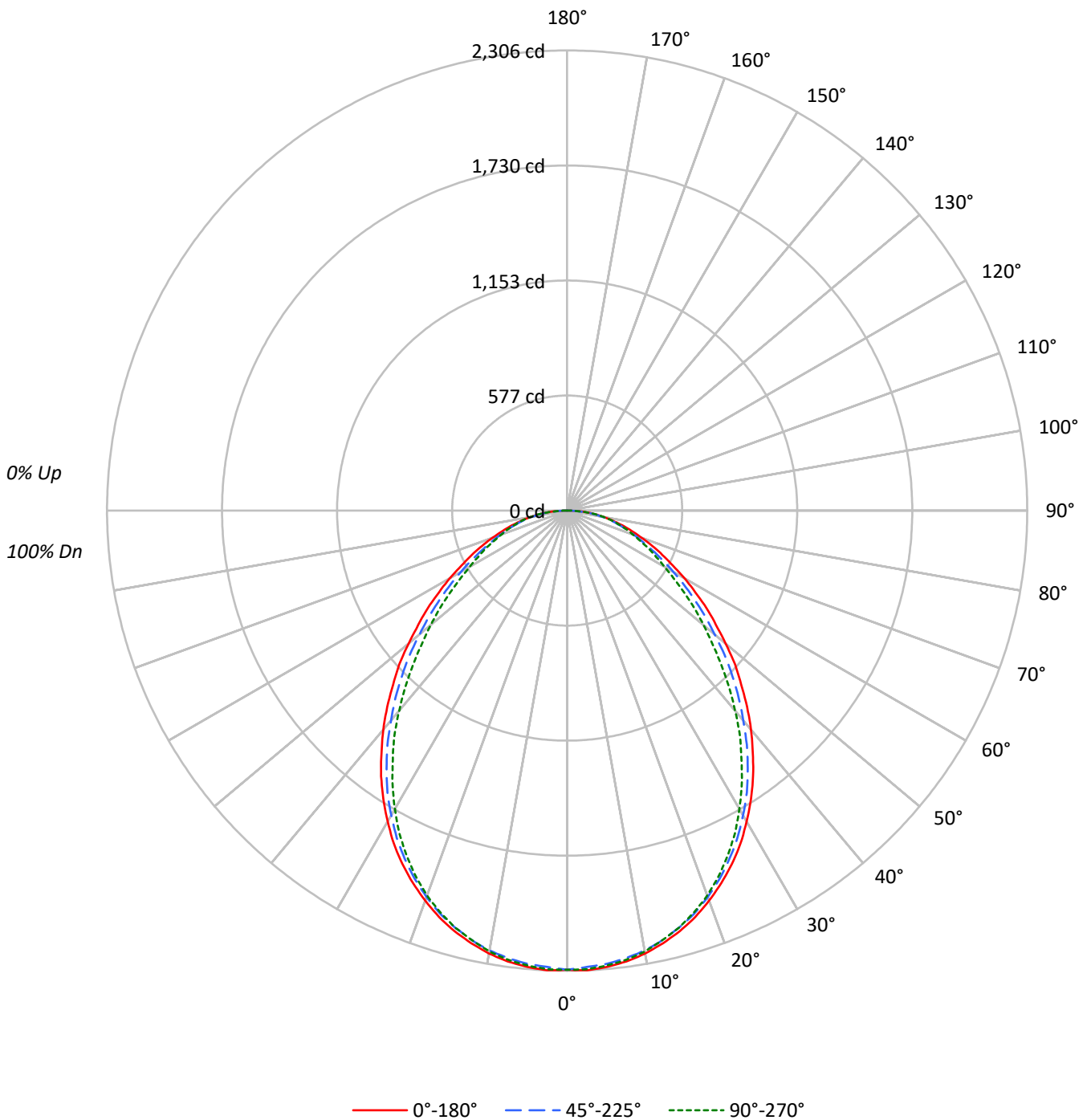
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	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°	6193	6193	6193
5°	6200	6159	6181
10°	6159	6117	6130
15°	6079	6029	6029
20°	5957	5899	5879
25°	5801	5717	5657
30°	5590	5480	5366
35°	5339	5184	5005
40°	5036	4825	4600
45°	4696	4453	4152
50°	4340	4038	3736
55°	4004	3660	3361
60°	3651	3308	3034
65°	3356	3003	2867
70°	3116	2808	2753
75°	2974	2728	2777
80°	2912	2748	2893
85°	2992	2702	2884



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	4.2
10°-20°	611.2	11.8
20°-30°	886.6	17.2
30°-40°	984.4	19.1
40°-50°	900.6	17.4
50°-60°	701.6	13.6
60°-70°	479.3	9.3
70°-80°	286.3	5.5
80°-90°	99.6	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°	1714.9	33.2
0°-40°	2699.2	52.2
0°-60°	4301.4	83.3
0°-90°	5166.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5166.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2301	2301	2301	2301	2301	
5°	2295	2291	2280	2292	2288	218
15°	2182	2176	2164	2172	2164	614
25°	1954	1946	1925	1920	1905	898
35°	1625	1611	1578	1545	1524	1014
45°	1234	1217	1170	1116	1091	953
55°	853	827	780	734	716	762
65°	527	507	472	450	450	525
75°	286	274	262	267	267	303
85°	97	92	88	96	93	104
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2301.3	2301.3	2301.3	2301.3	2301.3
2.5°	2306.0	2300.1	2289.4	2301.3	2300.1
5°	2295.3	2290.6	2280.0	2291.8	2288.3
7.5°	2278.8	2274.1	2262.3	2275.3	2270.5
10°	2254.0	2248.1	2238.6	2248.1	2243.3
12.5°	2220.9	2215.0	2205.5	2213.8	2205.5
15°	2181.9	2176.0	2164.1	2172.4	2164.1
17.5°	2135.8	2127.5	2118.1	2119.2	2112.1
20°	2080.2	2072.0	2060.1	2060.1	2053.0
22.5°	2020.0	2011.7	1997.5	1992.8	1983.3
25°	1953.8	1945.5	1925.4	1919.5	1905.3
27.5°	1881.7	1868.7	1848.6	1835.6	1821.4
30°	1798.9	1788.3	1763.5	1744.6	1726.8
32.5°	1715.0	1704.4	1676.0	1647.6	1628.7
35°	1625.2	1611.0	1577.9	1544.8	1523.5
37.5°	1528.3	1516.4	1478.6	1438.4	1421.9
40°	1433.7	1418.3	1373.4	1332.1	1309.6
42.5°	1334.4	1317.9	1273.0	1225.7	1200.9
45°	1234.0	1217.4	1170.1	1115.8	1090.9
47.5°	1140.6	1119.3	1069.7	1015.3	985.7
50°	1036.6	1018.8	964.5	912.5	892.4
52.5°	939.6	923.1	872.3	821.5	802.5
55°	853.4	827.4	780.1	734.0	716.3
57.5°	761.2	739.9	695.0	651.3	633.5
60°	678.4	661.9	614.6	576.8	563.8
62.5°	596.9	583.9	540.2	511.8	503.5
65°	527.1	507.1	471.6	450.3	450.3
67.5°	461.0	440.9	410.1	401.9	394.8
70°	396.0	380.6	356.9	349.9	349.9
72.5°	338.0	325.0	308.5	306.1	310.9
75°	286.0	274.2	262.4	267.1	267.1
77.5°	234.0	225.8	221.0	223.4	228.1
80°	187.9	182.0	177.3	183.2	186.7
82.5°	144.2	138.3	134.7	143.0	141.8
85°	96.9	92.2	87.5	95.7	93.4
87.5°	48.5	46.1	37.8	42.6	36.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)