

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: P476240

Luminaire Tested: **14GR-LD5-60-F125-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476240
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-60-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: 6269.2 lumens
Efficiency: N/A
Efficacy: 120.3 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

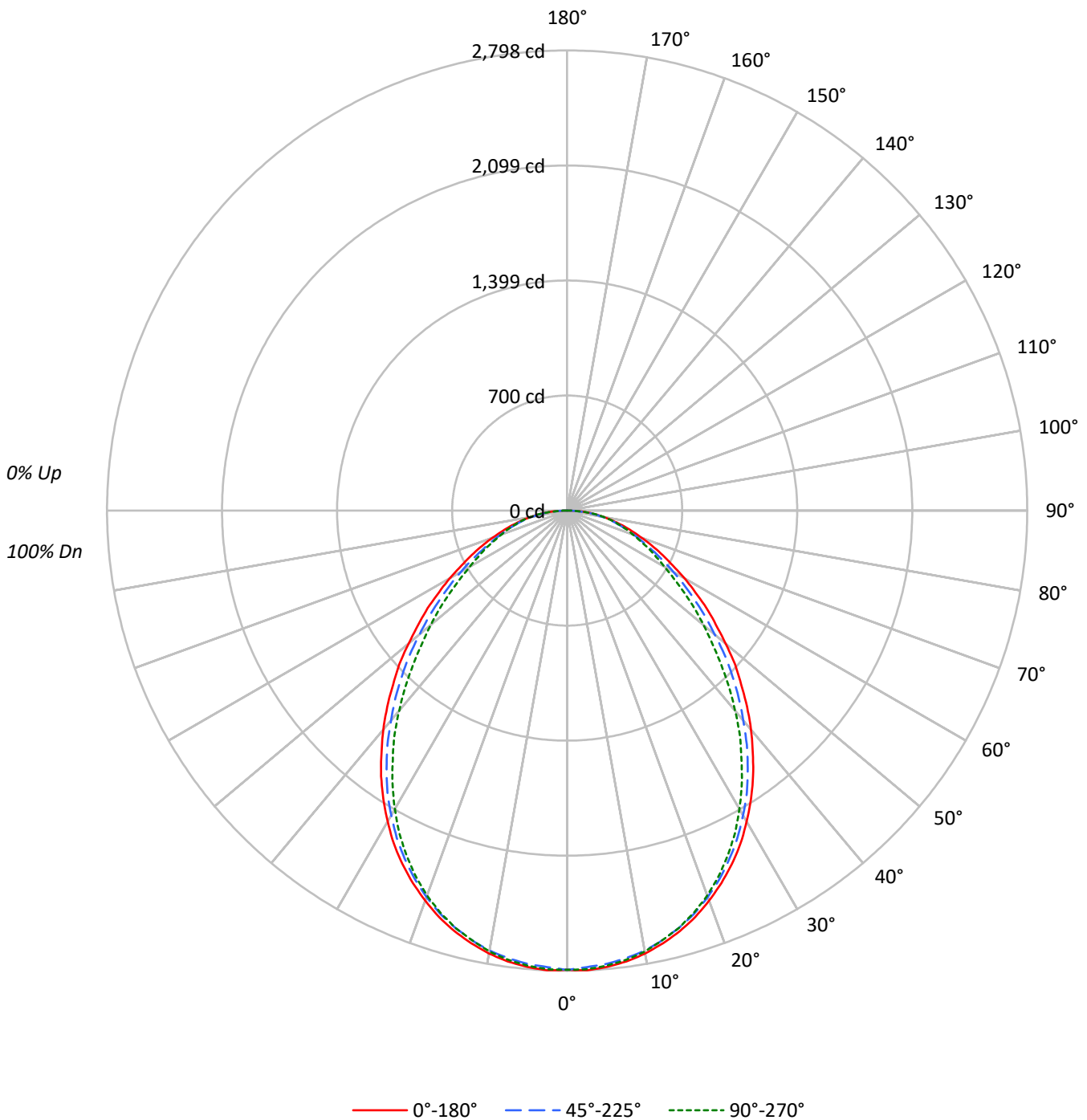
Input Watts (W): 52.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	7514	7514	7514
5°	7524	7473	7500
10°	7473	7423	7438
15°	7376	7316	7316
20°	7229	7159	7134
25°	7039	6937	6864
30°	6783	6649	6511
35°	6478	6290	6073
40°	6111	5854	5582
45°	5698	5404	5038
50°	5266	4899	4533
55°	4858	4441	4077
60°	4430	4014	3682
65°	4073	3643	3479
70°	3781	3408	3340
75°	3609	3310	3370
80°	3533	3333	3512
85°	3631	3276	3498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.5	4.2
10°-20°	741.6	11.8
20°-30°	1075.8	17.2
30°-40°	1194.5	19.1
40°-50°	1092.8	17.4
50°-60°	851.3	13.6
60°-70°	581.6	9.3
70°-80°	347.4	5.5
80°-90°	120.8	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°	2080.8	33.2
0°-40°	3275.3	52.2
0°-60°	5219.4	83.3
0°-90°	6269.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6269.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2792	2792	2792	2792	2792	
5°	2785	2780	2767	2781	2777	264
15°	2648	2640	2626	2636	2626	746
25°	2371	2361	2336	2329	2312	1090
35°	1972	1955	1915	1874	1849	1230
45°	1497	1477	1420	1354	1324	1156
55°	1036	1004	947	891	869	925
65°	640	615	572	546	546	637
75°	347	333	318	324	324	368
85°	118	112	106	116	113	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2792.4	2792.4	2792.4	2792.4	2792.4
2.5°	2798.1	2791.0	2778.1	2792.4	2791.0
5°	2785.2	2779.5	2766.6	2780.9	2776.6
7.5°	2765.2	2759.4	2745.1	2760.8	2755.1
10°	2735.0	2727.9	2716.4	2727.9	2722.1
12.5°	2694.9	2687.7	2676.2	2686.3	2676.2
15°	2647.5	2640.4	2626.0	2636.1	2626.0
17.5°	2591.6	2581.6	2570.1	2571.5	2562.9
20°	2524.2	2514.2	2499.8	2499.8	2491.2
22.5°	2451.1	2441.0	2423.8	2418.1	2406.6
25°	2370.7	2360.7	2336.3	2329.2	2311.9
27.5°	2283.3	2267.5	2243.1	2227.3	2210.1
30°	2182.9	2170.0	2139.8	2116.9	2095.4
32.5°	2081.0	2068.1	2033.7	1999.3	1976.3
35°	1972.0	1954.8	1914.7	1874.5	1848.7
37.5°	1854.4	1840.1	1794.2	1745.4	1725.4
40°	1739.7	1721.0	1666.5	1616.4	1589.1
42.5°	1619.2	1599.1	1544.6	1487.3	1457.2
45°	1497.3	1477.2	1419.9	1353.9	1323.8
47.5°	1384.0	1358.2	1298.0	1232.0	1196.1
50°	1257.8	1236.3	1170.3	1107.2	1082.8
52.5°	1140.2	1120.1	1058.4	996.8	973.8
55°	1035.5	1003.9	946.6	890.6	869.1
57.5°	923.6	897.8	843.3	790.2	768.7
60°	823.2	803.2	745.8	699.9	684.1
62.5°	724.3	708.5	655.4	621.0	611.0
65°	639.7	615.3	572.2	546.4	546.4
67.5°	559.3	535.0	497.7	487.6	479.0
70°	480.5	461.8	433.1	424.5	424.5
72.5°	410.2	394.4	374.3	371.5	377.2
75°	347.1	332.7	318.4	324.1	324.1
77.5°	284.0	273.9	268.2	271.1	276.8
80°	228.0	220.9	215.1	222.3	226.6
82.5°	175.0	167.8	163.5	173.5	172.1
85°	117.6	111.9	106.1	116.2	113.3
87.5°	58.8	55.9	45.9	51.6	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)