

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: P476383

Luminaire Tested: **14GR-LD5-50-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476383
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-50-FGW080-UNV-L850-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4391.4 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

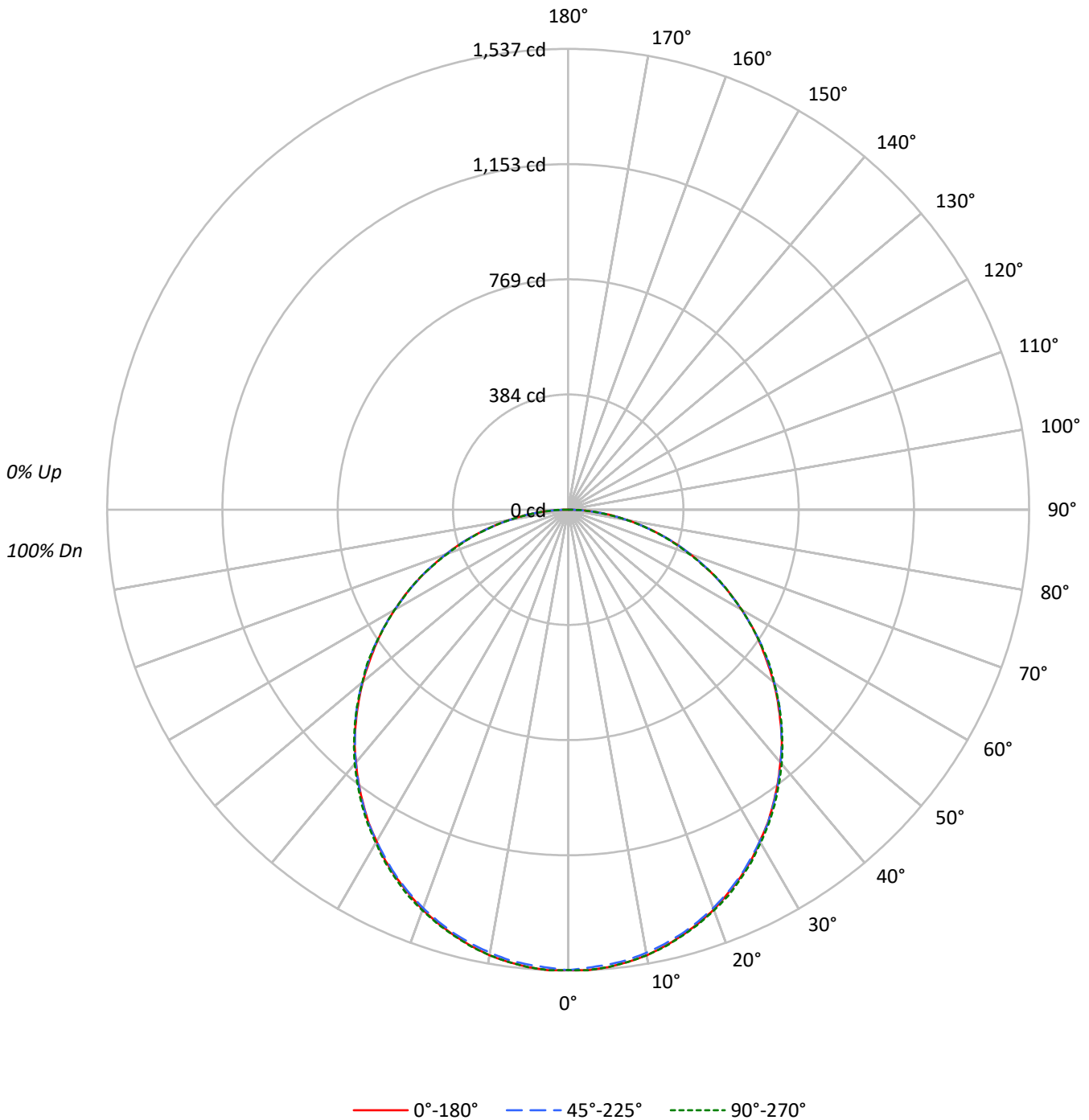
Input Watts (W): 41
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4133	4133	4133
5°	4137	4115	4137
10°	4124	4100	4124
15°	4094	4079	4098
20°	4064	4049	4072
25°	4022	4014	4035
30°	3970	3970	3986
35°	3920	3925	3942
40°	3866	3871	3891
45°	3809	3820	3825
50°	3744	3756	3750
55°	3668	3689	3682
60°	3596	3596	3596
65°	3514	3514	3529
70°	3402	3402	3368
75°	3283	3268	3253
80°	3135	3113	3092
85°	2942	2908	2822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.3
10°-20°	414.4	9.4
20°-30°	624.6	14.2
30°-40°	748.5	17.0
40°-50°	774.0	17.6
50°-60°	701.9	16.0
60°-70°	545.4	12.4
70°-80°	333.1	7.6
80°-90°	104.3	2.4
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°	1184.3	27.0
0°-40°	1932.7	44.0
0°-60°	3408.6	77.6
0°-90°	4391.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4391.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1532	1530	1523	1530	1532	145
15°	1470	1470	1464	1471	1471	415
25°	1355	1355	1352	1360	1359	624
35°	1193	1195	1195	1200	1200	747
45°	1001	1002	1004	1005	1005	772
55°	782	785	786	786	785	699
65°	552	552	552	549	554	545
75°	316	316	314	313	313	334
85°	95	93	94	91	91	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1535.7	1535.7	1535.7	1535.7	1535.7
2.5°	1537.2	1535.7	1528.6	1535.7	1537.2
5°	1531.5	1530.0	1523.3	1530.0	1531.5
7.5°	1521.9	1521.9	1514.8	1521.9	1521.9
10°	1509.1	1507.6	1500.5	1507.6	1509.1
12.5°	1490.9	1490.9	1483.8	1490.9	1492.3
15°	1469.6	1469.6	1464.3	1471.0	1471.0
17.5°	1445.8	1447.2	1440.4	1448.6	1448.6
20°	1419.1	1417.7	1413.8	1420.5	1421.9
22.5°	1387.1	1388.5	1384.3	1392.4	1393.9
25°	1354.7	1354.7	1351.9	1360.4	1359.0
27.5°	1319.5	1319.5	1315.3	1322.4	1323.8
30°	1277.6	1279.0	1277.6	1284.3	1282.9
32.5°	1238.1	1239.5	1239.5	1242.4	1243.8
35°	1193.3	1194.7	1194.7	1200.1	1200.1
37.5°	1148.2	1148.2	1149.6	1153.8	1153.8
40°	1100.5	1101.9	1101.9	1106.2	1107.6
42.5°	1054.3	1051.4	1052.9	1057.1	1057.1
45°	1000.9	1002.4	1003.8	1005.2	1005.2
47.5°	947.6	950.5	951.9	953.3	951.9
50°	894.3	897.1	897.1	895.7	895.7
52.5°	836.7	843.8	842.4	842.4	845.2
55°	781.9	784.8	786.2	786.2	784.8
57.5°	727.2	730.0	727.2	728.6	725.7
60°	668.1	669.5	668.1	668.1	668.1
62.5°	610.5	611.9	609.1	609.1	609.1
65°	551.9	551.9	551.9	549.0	554.3
67.5°	490.0	492.8	492.8	494.2	488.6
70°	432.4	433.8	432.4	431.0	428.1
72.5°	374.8	376.2	377.6	371.9	370.5
75°	315.8	315.8	314.3	312.9	312.9
77.5°	258.1	258.1	258.1	255.7	255.7
80°	202.3	203.4	200.9	200.9	199.5
82.5°	147.6	147.6	147.6	146.1	143.3
85°	95.3	92.8	94.2	91.4	91.4
87.5°	43.4	43.4	43.4	40.5	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)