

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: P476380

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L850-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476380
Test Lab: INNOVATION CENTER(G3)
Issue Date: 02/10/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-36-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: 3220.1 lumens
Efficiency: N/A
Efficacy: 111.0 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

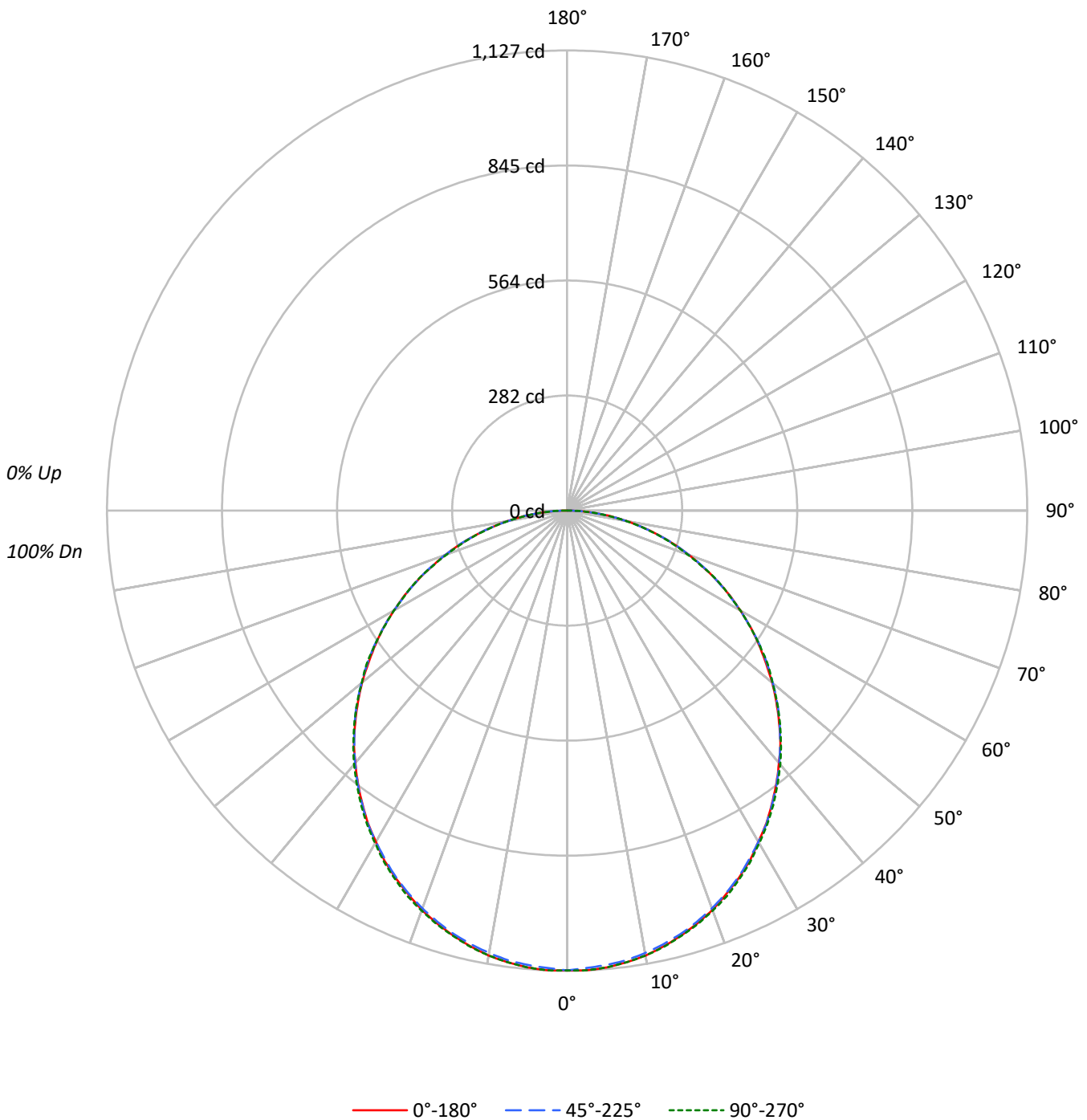
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3030	3030	3030
5°	3034	3017	3034
10°	3024	3007	3024
15°	3002	2991	3005
20°	2980	2969	2986
25°	2950	2943	2959
30°	2911	2911	2923
35°	2874	2878	2891
40°	2835	2838	2853
45°	2793	2801	2805
50°	2745	2754	2750
55°	2690	2705	2700
60°	2637	2637	2637
65°	2577	2577	2588
70°	2494	2494	2470
75°	2407	2397	2385
80°	2300	2283	2267
85°	2158	2133	2069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.3
10°-20°	303.9	9.4
20°-30°	458.0	14.2
30°-40°	548.8	17.0
40°-50°	567.6	17.6
50°-60°	514.6	16.0
60°-70°	399.9	12.4
70°-80°	244.2	7.6
80°-90°	76.5	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°	868.4	27.0
0°-40°	1417.2	44.0
0°-60°	2499.4	77.6
0°-90°	3220.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3220.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1126	1126	1126	1126	1126	
5°	1123	1122	1117	1122	1123	107
15°	1078	1078	1074	1079	1079	304
25°	993	993	991	998	996	458
35°	875	876	876	880	880	548
45°	734	735	736	737	737	566
55°	573	575	576	576	575	513
65°	405	405	405	403	406	400
75°	232	232	230	229	229	245
85°	70	68	69	67	67	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1126.1	1126.1	1126.1	1126.1	1126.1
2.5°	1127.1	1126.1	1120.9	1126.1	1127.1
5°	1123.0	1121.9	1117.0	1121.9	1123.0
7.5°	1115.9	1115.9	1110.7	1115.9	1115.9
10°	1106.5	1105.5	1100.3	1105.5	1106.5
12.5°	1093.2	1093.2	1088.0	1093.2	1094.3
15°	1077.6	1077.6	1073.7	1078.6	1078.6
17.5°	1060.1	1061.2	1056.2	1062.2	1062.2
20°	1040.6	1039.5	1036.7	1041.6	1042.7
22.5°	1017.1	1018.2	1015.0	1021.0	1022.1
25°	993.4	993.4	991.3	997.6	996.5
27.5°	967.6	967.6	964.4	969.7	970.7
30°	936.8	937.9	936.8	941.8	940.7
32.5°	907.9	908.9	908.9	911.0	912.0
35°	875.0	876.1	876.1	880.0	880.0
37.5°	841.9	841.9	842.9	846.1	846.1
40°	807.0	808.0	808.0	811.1	812.2
42.5°	773.1	771.0	772.0	775.2	775.2
45°	734.0	735.0	736.0	737.1	737.1
47.5°	694.9	696.9	698.0	699.0	698.0
50°	655.7	657.8	657.8	656.8	656.8
52.5°	613.5	618.7	617.7	617.7	619.8
55°	573.3	575.4	576.5	576.5	575.4
57.5°	533.2	535.3	533.2	534.2	532.2
60°	489.9	491.0	489.9	489.9	489.9
62.5°	447.7	448.7	446.6	446.6	446.6
65°	404.7	404.7	404.7	402.6	406.5
67.5°	359.3	361.4	361.4	362.4	358.2
70°	317.0	318.1	317.0	316.0	313.9
72.5°	274.8	275.9	276.9	272.7	271.7
75°	231.5	231.5	230.5	229.4	229.4
77.5°	189.3	189.3	189.3	187.5	187.5
80°	148.4	149.1	147.3	147.3	146.3
82.5°	108.2	108.2	108.2	107.2	105.1
85°	69.9	68.1	69.1	67.0	67.0
87.5°	31.8	31.8	31.8	29.7	33.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)