

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: P476371

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L840-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476371
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-L840-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3217.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

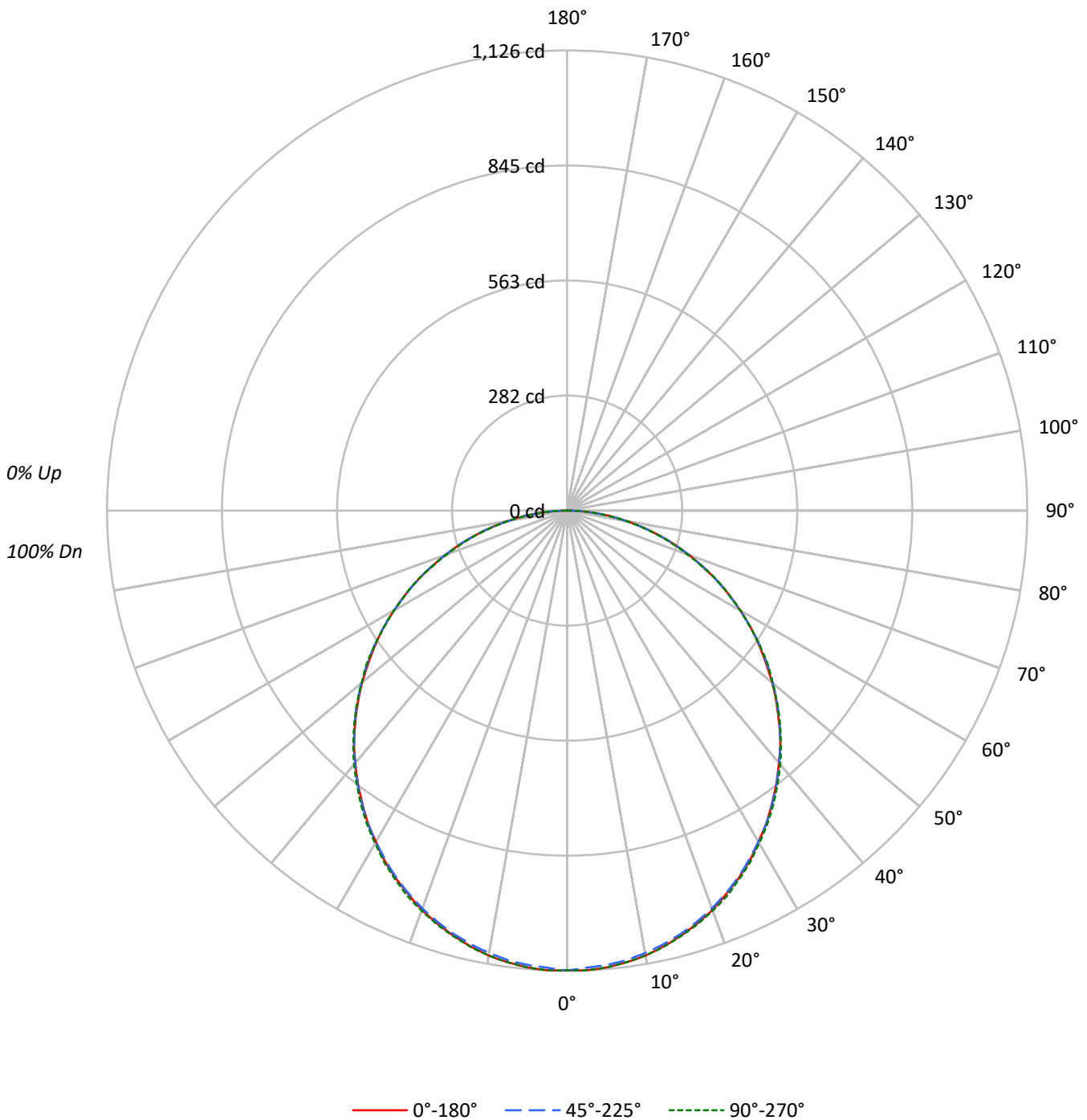
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3027	3027	3027
5°	3031	3014	3031
10°	3021	3004	3021
15°	2999	2988	3002
20°	2977	2966	2983
25°	2947	2940	2956
30°	2908	2908	2920
35°	2872	2875	2888
40°	2832	2836	2850
45°	2790	2798	2802
50°	2743	2751	2747
55°	2687	2702	2697
60°	2634	2634	2634
65°	2574	2574	2586
70°	2492	2492	2467
75°	2405	2394	2383
80°	2297	2281	2264
85°	2155	2130	2066



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.4	3.3
10°-20°	303.6	9.4
20°-30°	457.5	14.2
30°-40°	548.3	17.0
40°-50°	567.0	17.6
50°-60°	514.1	16.0
60°-70°	399.5	12.4
70°-80°	244.0	7.6
80°-90°	76.4	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°	867.5	27.0
0°-40°	1415.8	44.0
0°-60°	2497.0	77.6
0°-90°	3217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1122	1121	1116	1121	1122	107
15°	1076	1076	1073	1078	1078	304
25°	992	992	990	997	996	457
35°	874	875	875	879	879	547
45°	733	734	735	736	736	566
55°	573	575	576	576	575	512
65°	404	404	404	402	406	399
75°	231	231	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°	1125.0	1125.0	1125.0	1125.0	1125.0
2.5°	1126.0	1125.0	1119.8	1125.0	1126.0
5°	1121.9	1120.8	1115.9	1120.8	1121.9
7.5°	1114.8	1114.8	1109.6	1114.8	1114.8
10°	1105.5	1104.4	1099.2	1104.4	1105.5
12.5°	1092.2	1092.2	1087.0	1092.2	1093.2
15°	1076.5	1076.5	1072.6	1077.6	1077.6
17.5°	1059.1	1060.1	1055.2	1061.2	1061.2
20°	1039.6	1038.5	1035.7	1040.6	1041.6
22.5°	1016.1	1017.2	1014.0	1020.0	1021.1
25°	992.4	992.4	990.3	996.6	995.5
27.5°	966.6	966.6	963.5	968.7	969.8
30°	935.9	936.9	935.9	940.8	939.8
32.5°	907.0	908.0	908.0	910.1	911.1
35°	874.2	875.2	875.2	879.1	879.1
37.5°	841.1	841.1	842.1	845.2	845.2
40°	806.2	807.2	807.2	810.3	811.4
42.5°	772.3	770.2	771.3	774.4	774.4
45°	733.2	734.3	735.3	736.4	736.4
47.5°	694.2	696.3	697.3	698.3	697.3
50°	655.1	657.2	657.2	656.1	656.1
52.5°	612.9	618.1	617.1	617.1	619.2
55°	572.8	574.9	575.9	575.9	574.9
57.5°	532.7	534.8	532.7	533.7	531.6
60°	489.4	490.5	489.4	489.4	489.4
62.5°	447.2	448.3	446.2	446.2	446.2
65°	404.3	404.3	404.3	402.2	406.1
67.5°	358.9	361.0	361.0	362.1	357.9
70°	316.7	317.8	316.7	315.7	313.6
72.5°	274.5	275.6	276.6	272.5	271.4
75°	231.3	231.3	230.3	229.2	229.2
77.5°	189.1	189.1	189.1	187.3	187.3
80°	148.2	149.0	147.2	147.2	146.1
82.5°	108.1	108.1	108.1	107.1	105.0
85°	69.8	68.0	69.0	66.9	66.9
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)