

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: P476353

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L830-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476353
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-L830-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3046.5 lumens
Efficiency: N/A
Efficacy: 105.1 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

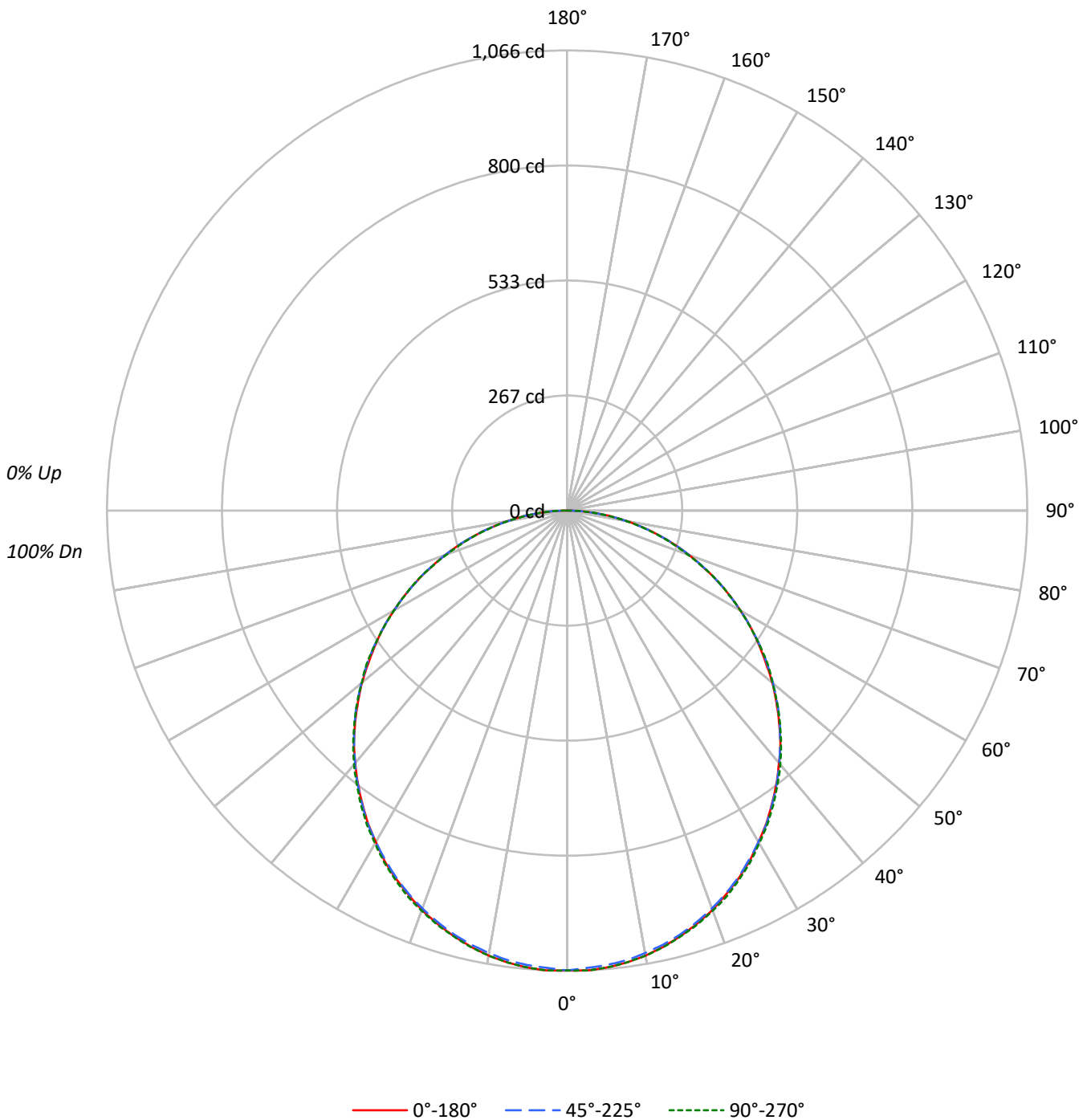
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2867	2867	2867
5°	2870	2854	2870
10°	2861	2845	2861
15°	2840	2830	2843
20°	2819	2809	2825
25°	2790	2784	2799
30°	2754	2754	2765
35°	2719	2723	2735
40°	2682	2685	2699
45°	2643	2650	2654
50°	2597	2606	2601
55°	2545	2559	2554
60°	2495	2495	2495
65°	2437	2437	2449
70°	2360	2360	2337
75°	2277	2268	2257
80°	2176	2160	2145
85°	2041	2019	1958



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	3.3
10°-20°	287.5	9.4
20°-30°	433.3	14.2
30°-40°	519.2	17.0
40°-50°	537.0	17.6
50°-60°	486.9	16.0
60°-70°	378.4	12.4
70°-80°	231.1	7.6
80°-90°	72.4	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°	821.6	27.0
0°-40°	1340.8	44.0
0°-60°	2364.7	77.6
0°-90°	3046.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3046.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1065	1065	1065	1065	1065	
5°	1062	1061	1057	1061	1062	101
15°	1020	1020	1016	1020	1020	288
25°	940	940	938	944	943	433
35°	828	829	829	832	832	518
45°	694	695	696	697	697	536
55°	542	544	545	545	544	485
65°	383	383	383	381	385	378
75°	219	219	218	217	217	232
85°	66	64	65	63	63	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1065.4	1065.4	1065.4	1065.4	1065.4
2.5°	1066.4	1065.4	1060.4	1065.4	1066.4
5°	1062.4	1061.4	1056.7	1061.4	1062.4
7.5°	1055.8	1055.8	1050.8	1055.8	1055.8
10°	1046.9	1045.9	1041.0	1045.9	1046.9
12.5°	1034.3	1034.3	1029.4	1034.3	1035.3
15°	1019.5	1019.5	1015.8	1020.5	1020.5
17.5°	1003.0	1004.0	999.3	1004.9	1004.9
20°	984.5	983.5	980.8	985.5	986.4
22.5°	962.3	963.3	960.3	966.0	967.0
25°	939.8	939.8	937.8	943.8	942.8
27.5°	915.4	915.4	912.4	917.4	918.4
30°	886.3	887.3	886.3	891.0	890.0
32.5°	858.9	859.9	859.9	861.9	862.9
35°	827.8	828.8	828.8	832.5	832.5
37.5°	796.5	796.5	797.5	800.5	800.5
40°	763.5	764.4	764.4	767.4	768.4
42.5°	731.4	729.4	730.4	733.4	733.4
45°	694.4	695.4	696.4	697.3	697.3
47.5°	657.4	659.4	660.3	661.3	660.3
50°	620.4	622.4	622.4	621.4	621.4
52.5°	580.4	585.4	584.4	584.4	586.3
55°	542.4	544.4	545.4	545.4	544.4
57.5°	504.4	506.4	504.4	505.4	503.5
60°	463.5	464.5	463.5	463.5	463.5
62.5°	423.5	424.5	422.6	422.6	422.6
65°	382.8	382.8	382.8	380.9	384.6
67.5°	339.9	341.9	341.9	342.9	338.9
70°	300.0	300.9	300.0	299.0	297.0
72.5°	260.0	261.0	262.0	258.0	257.0
75°	219.0	219.0	218.1	217.1	217.1
77.5°	179.1	179.1	179.1	177.4	177.4
80°	140.4	141.1	139.4	139.4	138.4
82.5°	102.4	102.4	102.4	101.4	99.4
85°	66.1	64.4	65.4	63.4	63.4
87.5°	30.1	30.1	30.1	28.1	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)