

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: P476362

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L835-CD1-U**

Issue Date: 02/10/2021

Test Information

Test Method: LM-79-08
Report Number: P476362
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-L835-CD1-U
Description: GR 1'X4' LED TROFFER w/ FGW080 LENS
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

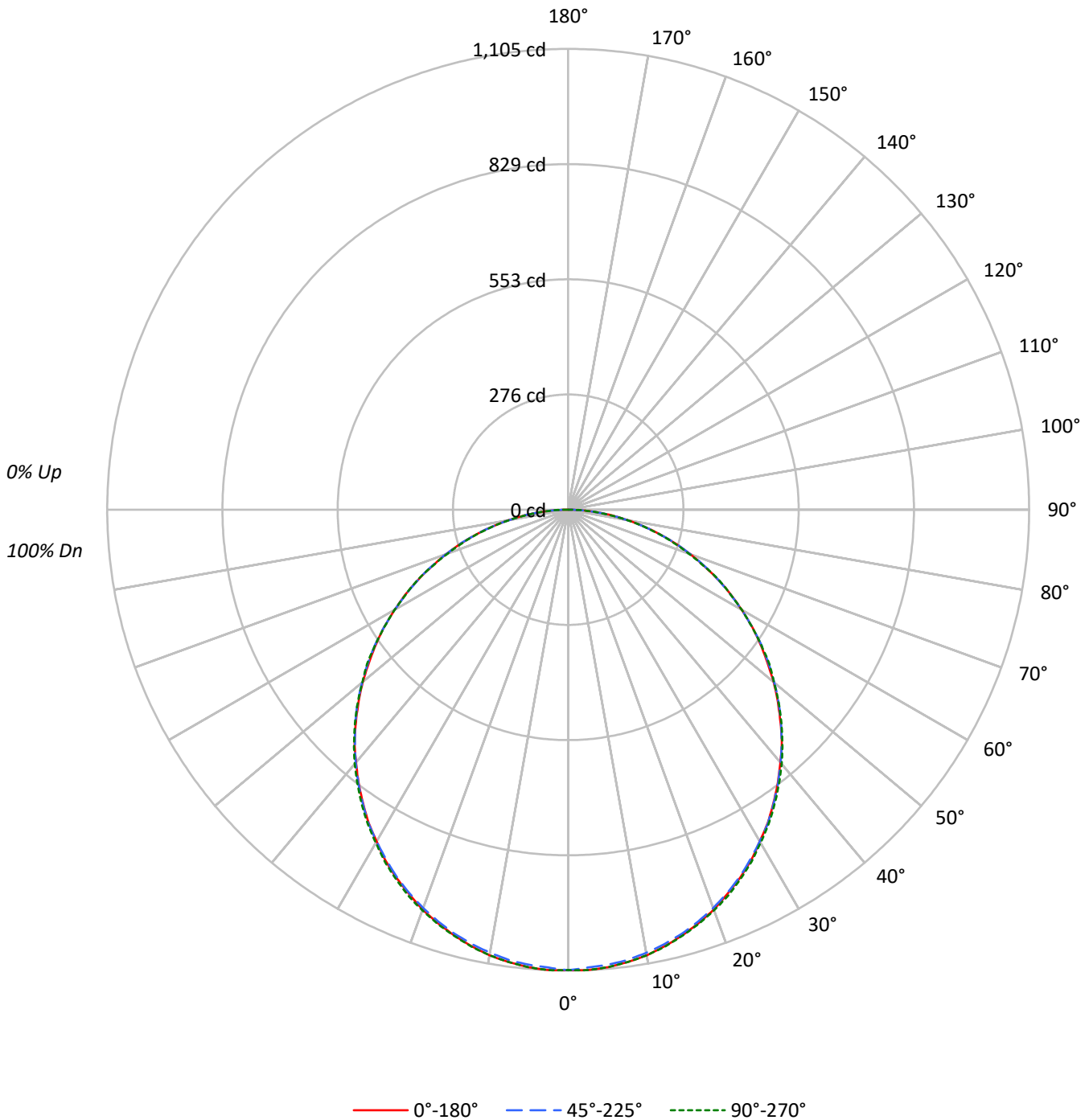
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2971	2971	2971
5°	2974	2958	2974
10°	2964	2948	2964
15°	2943	2932	2946
20°	2922	2910	2927
25°	2892	2886	2901
30°	2854	2854	2866
35°	2818	2822	2834
40°	2779	2783	2797
45°	2739	2746	2750
50°	2691	2700	2696
55°	2637	2652	2647
60°	2585	2585	2585
65°	2526	2526	2537
70°	2445	2445	2422
75°	2360	2350	2338
80°	2253	2238	2222
85°	2115	2090	2029



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.3
10°-20°	297.9	9.4
20°-30°	449.0	14.2
30°-40°	538.1	17.0
40°-50°	556.4	17.6
50°-60°	504.6	16.0
60°-70°	392.1	12.4
70°-80°	239.5	7.6
80°-90°	75.0	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°	851.4	27.0
0°-40°	1389.4	44.0
0°-60°	2450.4	77.6
0°-90°	3157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1101	1100	1095	1100	1101	105
15°	1056	1056	1053	1058	1058	298
25°	974	974	972	978	977	449
35°	858	859	859	863	863	537
45°	720	721	722	723	723	555
55°	562	564	565	565	564	503
65°	397	397	397	395	398	392
75°	227	227	226	225	225	240
85°	68	67	68	66	66	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	1104.0
2.5°	1105.0	1104.0	1098.9	1104.0	1105.0
5°	1101.0	1099.9	1095.1	1099.9	1101.0
7.5°	1094.1	1094.1	1088.9	1094.1	1094.1
10°	1084.8	1083.8	1078.7	1083.8	1084.8
12.5°	1071.8	1071.8	1066.7	1071.8	1072.8
15°	1056.5	1056.5	1052.6	1057.5	1057.5
17.5°	1039.3	1040.4	1035.5	1041.4	1041.4
20°	1020.2	1019.2	1016.3	1021.2	1022.2
22.5°	997.2	998.2	995.1	1001.0	1002.0
25°	973.9	973.9	971.9	978.0	977.0
27.5°	948.6	948.6	945.5	950.6	951.7
30°	918.4	919.5	918.4	923.3	922.3
32.5°	890.1	891.1	891.1	893.1	894.2
35°	857.9	858.9	858.9	862.7	862.7
37.5°	825.4	825.4	826.4	829.5	829.5
40°	791.1	792.2	792.2	795.2	796.3
42.5°	757.9	755.9	756.9	760.0	760.0
45°	719.6	720.6	721.6	722.6	722.6
47.5°	681.2	683.3	684.3	685.3	684.3
50°	642.9	644.9	644.9	643.9	643.9
52.5°	601.5	606.6	605.6	605.6	607.6
55°	562.1	564.2	565.2	565.2	564.2
57.5°	522.7	524.8	522.7	523.8	521.7
60°	480.3	481.3	480.3	480.3	480.3
62.5°	438.9	439.9	437.9	437.9	437.9
65°	396.7	396.7	396.7	394.7	398.5
67.5°	352.2	354.3	354.3	355.3	351.2
70°	310.8	311.9	310.8	309.8	307.8
72.5°	269.4	270.4	271.5	267.4	266.4
75°	227.0	227.0	226.0	224.9	224.9
77.5°	185.6	185.6	185.6	183.8	183.8
80°	145.4	146.2	144.4	144.4	143.4
82.5°	106.1	106.1	106.1	105.1	103.0
85°	68.5	66.7	67.7	65.7	65.7
87.5°	31.2	31.2	31.2	29.1	33.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)