

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: P291626

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-24)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3062.0 lumens
Efficiency: N/A
Efficacy: 83.8 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

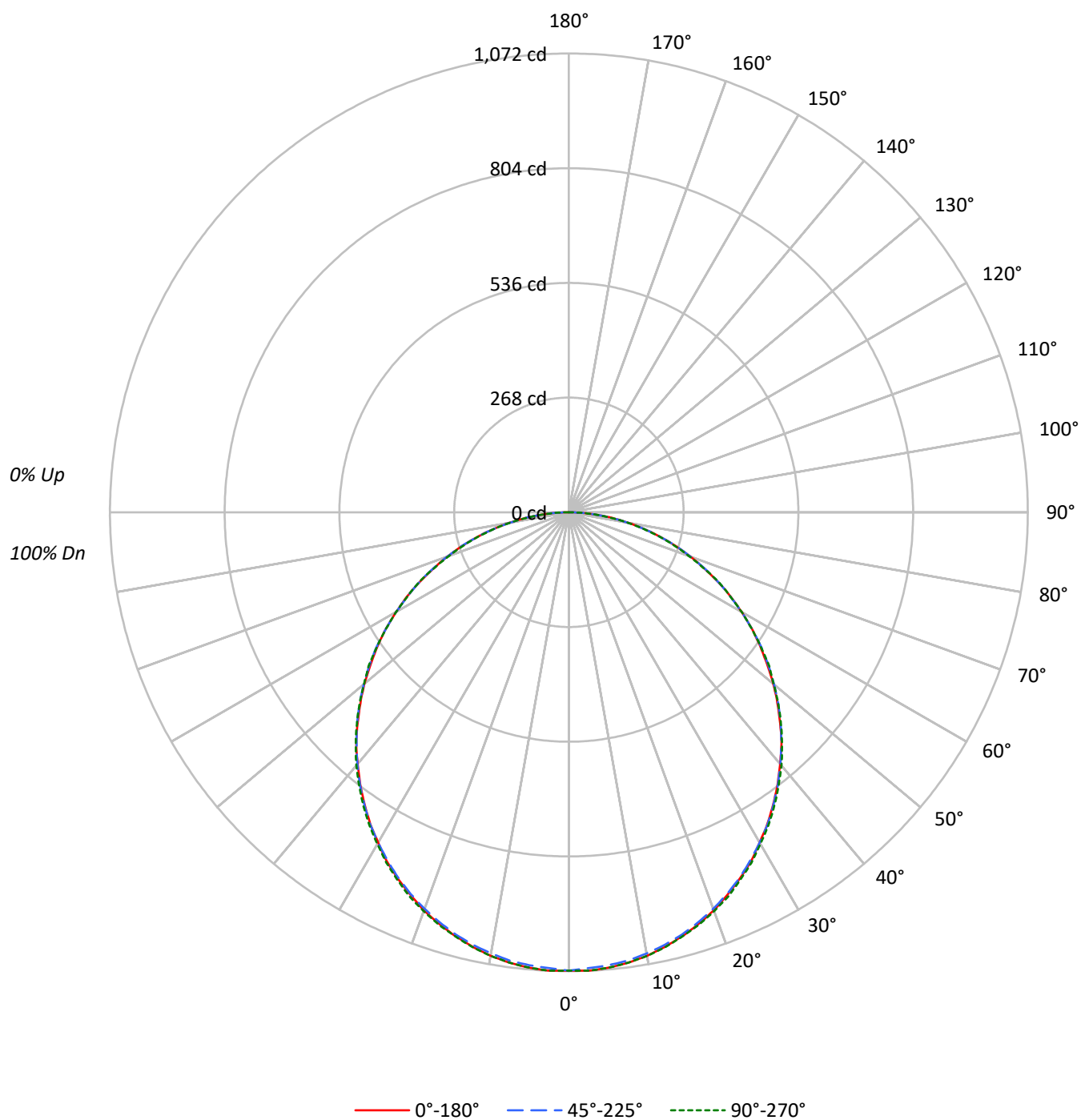
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2882	2882	2882
5°	2885	2869	2885
10°	2875	2859	2875
15°	2855	2844	2858
20°	2834	2823	2840
25°	2805	2799	2813
30°	2768	2768	2780
35°	2733	2736	2749
40°	2696	2699	2713
45°	2656	2664	2667
50°	2610	2619	2614
55°	2558	2571	2567
60°	2507	2507	2507
65°	2450	2450	2462
70°	2372	2372	2349
75°	2289	2280	2270
80°	2185	2170	2154
85°	2056	2025	1964



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.3
10°-20°	289.0	9.4
20°-30°	435.5	14.2
30°-40°	521.9	17.0
40°-50°	539.7	17.6
50°-60°	489.4	16.0
60°-70°	380.3	12.4
70°-80°	232.3	7.6
80°-90°	72.7	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°	825.8	27.0
0°-40°	1347.7	44.0
0°-60°	2376.7	77.6
0°-90°	3062.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3062.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1068	1067	1062	1067	1068	101
15°	1025	1025	1021	1026	1026	289
25°	945	945	943	948	948	435
35°	832	833	833	837	837	521
45°	698	699	700	701	701	538
55°	545	547	548	548	547	488
65°	385	385	385	383	387	380
75°	220	220	219	218	218	233
85°	67	65	66	64	64	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1070.8	1070.8	1070.8	1070.8	1070.8
2.5°	1071.8	1070.8	1065.9	1070.8	1071.8
5°	1067.9	1066.9	1062.0	1066.9	1067.9
7.5°	1061.1	1061.1	1056.2	1061.1	1061.1
10°	1052.2	1051.3	1046.4	1051.3	1052.2
12.5°	1039.5	1039.5	1034.6	1039.5	1040.5
15°	1024.8	1024.8	1020.9	1025.8	1025.8
17.5°	1008.2	1009.2	1004.3	1010.2	1010.2
20°	989.6	988.6	985.7	990.6	991.6
22.5°	967.1	968.1	965.1	971.0	972.0
25°	944.6	944.6	942.6	948.5	947.5
27.5°	920.1	920.1	917.2	922.1	923.0
30°	890.7	891.7	890.7	895.6	894.7
32.5°	863.3	864.3	864.3	866.3	867.2
35°	832.0	833.0	833.0	836.9	836.9
37.5°	800.7	800.7	801.7	804.6	804.6
40°	767.4	768.4	768.4	771.3	772.3
42.5°	735.1	733.1	734.1	737.1	737.1
45°	697.9	698.9	699.9	700.8	700.8
47.5°	660.7	662.7	663.6	664.6	663.6
50°	623.5	625.5	625.5	624.5	624.5
52.5°	583.4	588.3	587.3	587.3	589.3
55°	545.2	547.2	548.1	548.1	547.2
57.5°	507.0	509.0	507.0	508.0	506.1
60°	465.9	466.9	465.9	465.9	465.9
62.5°	425.8	426.8	424.8	424.8	424.8
65°	384.7	384.7	384.7	382.7	386.6
67.5°	341.6	343.6	343.6	344.5	340.6
70°	301.5	302.5	301.5	300.5	298.5
72.5°	261.3	262.3	263.3	259.4	258.4
75°	220.2	220.2	219.3	218.3	218.3
77.5°	180.1	180.1	180.1	178.1	178.1
80°	141.0	141.9	140.0	140.0	139.0
82.5°	102.8	102.8	102.8	101.8	99.8
85°	66.6	64.6	65.6	63.6	63.6
87.5°	30.3	30.3	30.3	28.4	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)