

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: P291619

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291619
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-LD5-40-FGW080-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3055.0 lumens
Efficiency: N/A
Efficacy: 90.2 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

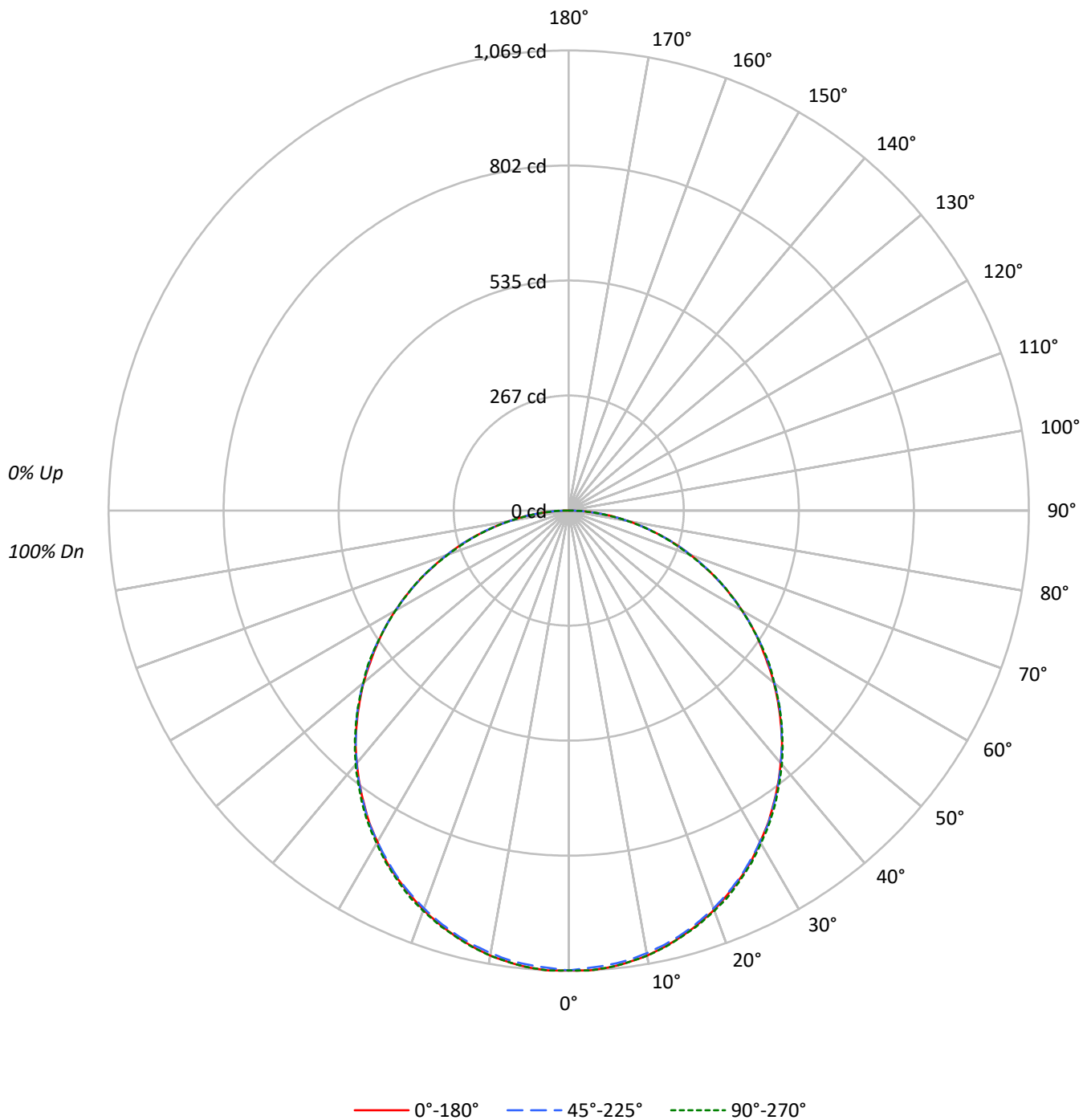
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2875	2875	2875
5°	2878	2862	2878
10°	2869	2853	2869
15°	2849	2838	2851
20°	2827	2816	2833
25°	2798	2793	2807
30°	2761	2761	2774
35°	2727	2730	2743
40°	2690	2693	2707
45°	2650	2657	2661
50°	2604	2612	2609
55°	2552	2566	2561
60°	2502	2502	2502
65°	2444	2444	2457
70°	2367	2367	2344
75°	2284	2275	2264
80°	2179	2165	2149
85°	2050	2019	1961



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.0	3.3
10°-20°	288.3	9.4
20°-30°	434.5	14.2
30°-40°	520.7	17.0
40°-50°	538.4	17.6
50°-60°	488.2	16.0
60°-70°	379.4	12.4
70°-80°	231.8	7.6
80°-90°	72.5	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°	823.9	27.0
0°-40°	1344.6	44.0
0°-60°	2371.3	77.6
0°-90°	3055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1064	1060	1064	1066	101
15°	1022	1022	1019	1024	1024	289
25°	942	942	940	946	945	434
35°	830	831	831	835	835	520
45°	696	697	698	699	699	537
55°	544	546	547	547	546	487
65°	384	384	384	382	386	379
75°	220	220	219	218	218	232
85°	66	64	65	64	64	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.4	1068.4	1068.4	1068.4	1068.4
2.5°	1069.4	1068.4	1063.5	1068.4	1069.4
5°	1065.5	1064.5	1059.6	1064.5	1065.5
7.5°	1058.6	1058.6	1053.7	1058.6	1058.6
10°	1049.8	1048.9	1044.0	1048.9	1049.8
12.5°	1037.1	1037.1	1032.3	1037.1	1038.1
15°	1022.5	1022.5	1018.6	1023.5	1023.5
17.5°	1005.9	1006.9	1002.0	1007.8	1007.8
20°	987.3	986.4	983.4	988.3	989.3
22.5°	964.9	965.9	962.9	968.8	969.8
25°	942.4	942.4	940.5	946.3	945.3
27.5°	918.0	918.0	915.1	920.0	920.9
30°	888.7	889.7	888.7	893.6	892.6
32.5°	861.4	862.3	862.3	864.3	865.3
35°	830.1	831.1	831.1	835.0	835.0
37.5°	798.9	798.9	799.8	802.8	802.8
40°	765.7	766.6	766.6	769.6	770.5
42.5°	733.4	731.5	732.4	735.4	735.4
45°	696.3	697.3	698.3	699.2	699.2
47.5°	659.2	661.2	662.1	663.1	662.1
50°	622.1	624.0	624.0	623.1	623.1
52.5°	582.1	586.9	586.0	586.0	587.9
55°	544.0	545.9	546.9	546.9	545.9
57.5°	505.9	507.8	505.9	506.9	504.9
60°	464.9	465.8	464.9	464.9	464.9
62.5°	424.8	425.8	423.8	423.8	423.8
65°	383.8	383.8	383.8	381.8	385.8
67.5°	340.8	342.8	342.8	343.8	339.9
70°	300.8	301.8	300.8	299.8	297.9
72.5°	260.8	261.7	262.7	258.8	257.8
75°	219.7	219.7	218.8	217.8	217.8
77.5°	179.7	179.7	179.7	177.7	177.7
80°	140.6	141.6	139.7	139.7	138.7
82.5°	102.5	102.5	102.5	101.6	99.6
85°	66.4	64.5	65.4	63.5	63.5
87.5°	30.3	30.3	30.3	28.3	32.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)