

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: P291721

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291721
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2936.0 lumens
Efficiency: N/A
Efficacy: 84.9 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

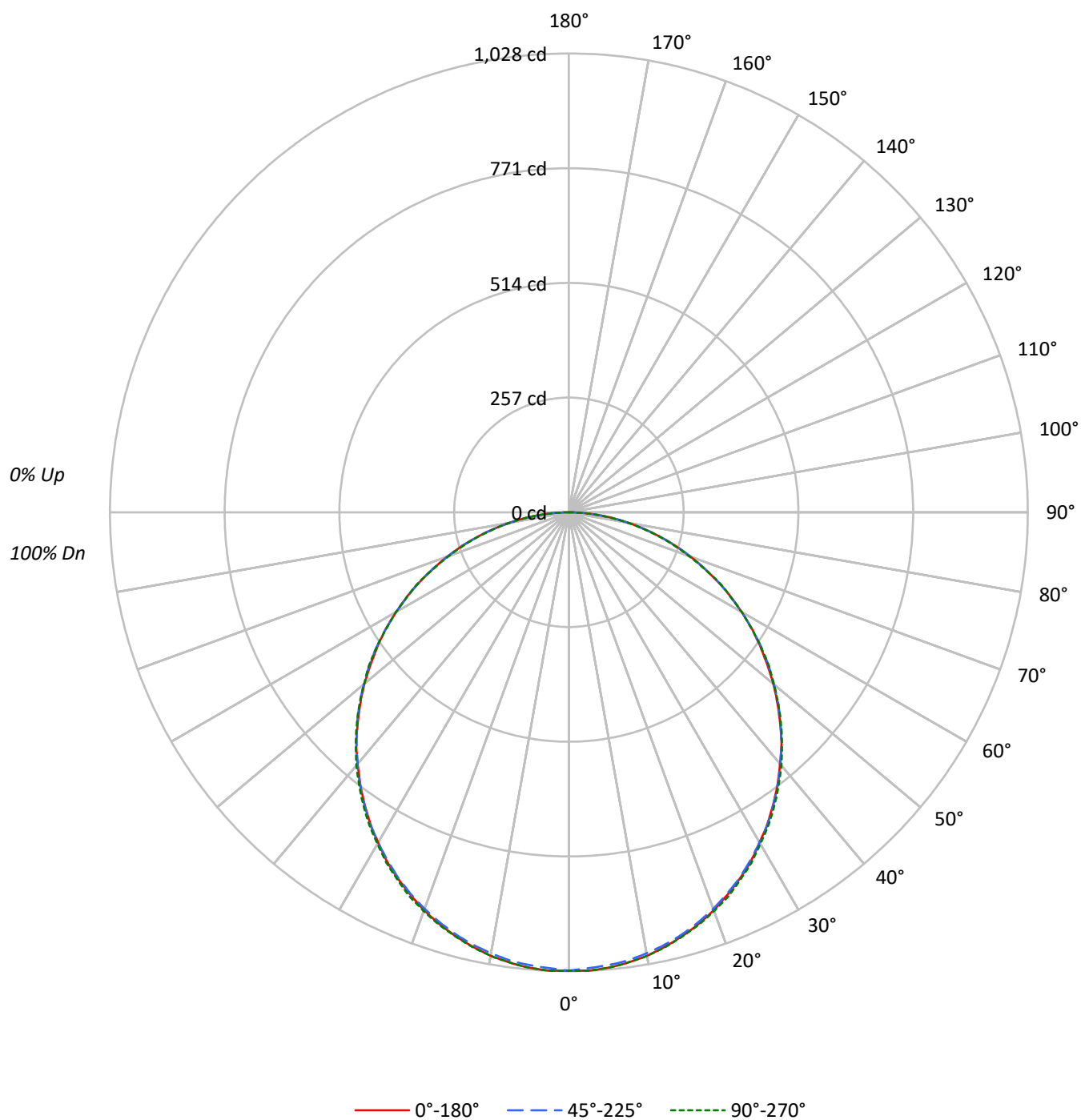
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2763	2763	2763
5°	2766	2751	2766
10°	2757	2742	2757
15°	2738	2727	2740
20°	2717	2706	2723
25°	2689	2684	2697
30°	2654	2654	2665
35°	2621	2624	2636
40°	2585	2588	2601
45°	2547	2554	2557
50°	2503	2511	2507
55°	2453	2466	2462
60°	2405	2405	2405
65°	2349	2349	2360
70°	2275	2275	2253
75°	2196	2185	2176
80°	2095	2080	2066
85°	1970	1942	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.3
10°-20°	277.1	9.4
20°-30°	417.6	14.2
30°-40°	500.4	17.0
40°-50°	517.5	17.6
50°-60°	469.2	16.0
60°-70°	364.7	12.4
70°-80°	222.7	7.6
80°-90°	69.7	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°	791.8	27.0
0°-40°	1292.2	44.0
0°-60°	2278.9	77.6
0°-90°	2936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1024	1023	1018	1023	1024	97
15°	983	983	979	984	984	277
25°	906	906	904	910	908	417
35°	798	799	799	802	802	499
45°	669	670	671	672	672	516
55°	523	525	526	526	525	468
65°	369	369	369	367	371	364
75°	211	211	210	209	209	223
85°	64	62	63	61	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.8	1026.8	1026.8	1026.8	1026.8
2.5°	1027.7	1026.8	1022.1	1026.8	1027.7
5°	1024.0	1023.0	1018.3	1023.0	1024.0
7.5°	1017.4	1017.4	1012.7	1017.4	1017.4
10°	1008.9	1008.0	1003.3	1008.0	1008.9
12.5°	996.7	996.7	992.1	996.7	997.7
15°	982.7	982.7	978.9	983.6	983.6
17.5°	966.7	967.6	963.0	968.6	968.6
20°	948.9	947.9	945.1	949.8	950.8
22.5°	927.3	928.2	925.4	931.0	932.0
25°	905.7	905.7	903.8	909.5	908.5
27.5°	882.2	882.2	879.4	884.1	885.1
30°	854.1	855.0	854.1	858.8	857.8
32.5°	827.8	828.7	828.7	830.6	831.6
35°	797.8	798.7	798.7	802.5	802.5
37.5°	767.7	767.7	768.7	771.5	771.5
40°	735.8	736.8	736.8	739.6	740.5
42.5°	704.9	703.0	703.9	706.7	706.7
45°	669.2	670.1	671.1	672.0	672.0
47.5°	633.5	635.4	636.3	637.3	636.3
50°	597.9	599.7	599.7	598.8	598.8
52.5°	559.4	564.1	563.1	563.1	565.0
55°	522.8	524.7	525.6	525.6	524.7
57.5°	486.2	488.0	486.2	487.1	485.2
60°	446.8	447.7	446.8	446.8	446.8
62.5°	408.3	409.2	407.3	407.3	407.3
65°	368.9	368.9	368.9	367.0	370.7
67.5°	327.6	329.4	329.4	330.4	326.6
70°	289.1	290.0	289.1	288.1	286.3
72.5°	250.6	251.5	252.5	248.7	247.8
75°	211.2	211.2	210.2	209.3	209.3
77.5°	172.7	172.7	172.7	170.8	170.8
80°	135.2	136.1	134.2	134.2	133.3
82.5°	98.5	98.5	98.5	97.6	95.7
85°	63.8	61.9	62.9	61.0	61.0
87.5°	29.1	29.1	29.1	27.2	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)