

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: P291716

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291716
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.0 lumens
Efficiency: N/A
Efficacy: 76.3 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

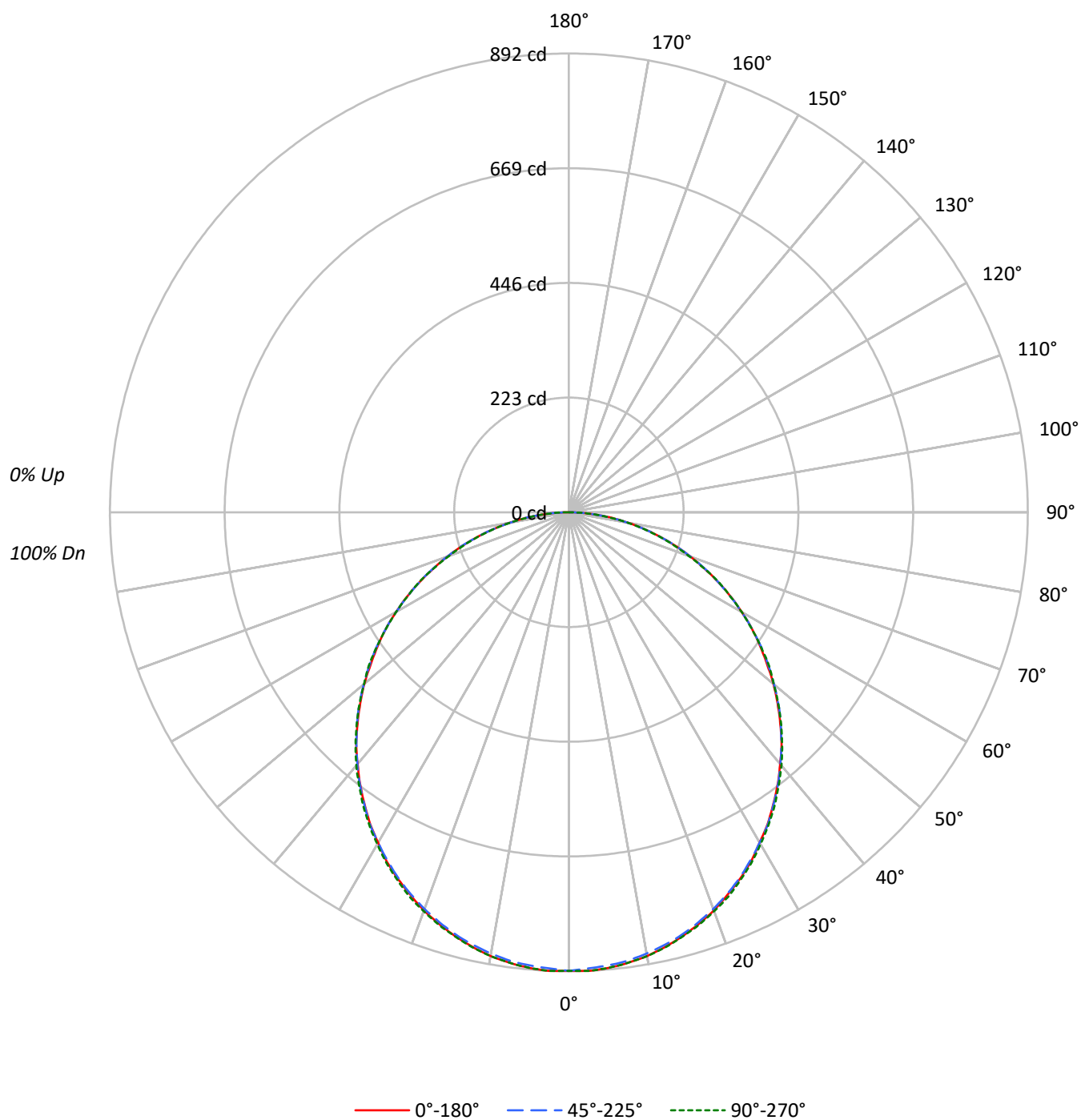
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2399	2399	2399
5°	2401	2388	2401
10°	2394	2380	2394
15°	2377	2368	2379
20°	2359	2350	2364
25°	2335	2330	2342
30°	2304	2304	2314
35°	2275	2278	2289
40°	2244	2247	2258
45°	2211	2217	2220
50°	2173	2180	2177
55°	2130	2141	2137
60°	2088	2088	2088
65°	2039	2039	2050
70°	1975	1975	1955
75°	1906	1897	1889
80°	1818	1805	1793
85°	1711	1686	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.3	3.3
10°-20°	240.6	9.4
20°-30°	362.5	14.2
30°-40°	434.5	17.0
40°-50°	449.3	17.6
50°-60°	407.4	16.0
60°-70°	316.6	12.4
70°-80°	193.4	7.6
80°-90°	60.5	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°	687.4	27.0
0°-40°	1121.9	44.0
0°-60°	1978.5	77.6
0°-90°	2549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	891	891	891	891	891	
5°	889	888	884	888	889	84
15°	853	853	850	854	854	241
25°	786	786	785	790	789	362
35°	693	693	693	697	697	433
45°	581	582	583	583	583	448
55°	454	456	456	456	456	406
65°	320	320	320	319	322	316
75°	183	183	182	182	182	194
85°	55	54	55	53	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	891.4	891.4	891.4	891.4	891.4
2.5°	892.3	891.4	887.4	891.4	892.3
5°	889.0	888.2	884.1	888.2	889.0
7.5°	883.3	883.3	879.2	883.3	883.3
10°	876.0	875.1	871.1	875.1	876.0
12.5°	865.4	865.4	861.3	865.4	866.2
15°	853.1	853.1	849.9	854.0	854.0
17.5°	839.3	840.1	836.0	840.9	840.9
20°	823.8	823.0	820.5	824.6	825.4
22.5°	805.1	805.9	803.4	808.3	809.1
25°	786.3	786.3	784.7	789.6	788.8
27.5°	766.0	766.0	763.5	767.6	768.4
30°	741.5	742.3	741.5	745.6	744.8
32.5°	718.7	719.5	719.5	721.1	721.9
35°	692.6	693.4	693.4	696.7	696.7
37.5°	666.5	666.5	667.4	669.8	669.8
40°	638.8	639.7	639.7	642.1	642.9
42.5°	611.9	610.3	611.1	613.6	613.6
45°	581.0	581.8	582.6	583.4	583.4
47.5°	550.0	551.6	552.5	553.3	552.5
50°	519.1	520.7	520.7	519.9	519.9
52.5°	485.6	489.7	488.9	488.9	490.5
55°	453.9	455.5	456.3	456.3	455.5
57.5°	422.1	423.7	422.1	422.9	421.3
60°	387.9	388.7	387.9	387.9	387.9
62.5°	354.5	355.3	353.6	353.6	353.6
65°	320.2	320.2	320.2	318.6	321.9
67.5°	284.4	286.0	286.0	286.8	283.6
70°	251.0	251.8	251.0	250.2	248.5
72.5°	217.6	218.4	219.2	215.9	215.1
75°	183.3	183.3	182.5	181.7	181.7
77.5°	149.9	149.9	149.9	148.3	148.3
80°	117.3	118.2	116.5	116.5	115.7
82.5°	85.6	85.6	85.6	84.7	83.1
85°	55.4	53.8	54.6	53.0	53.0
87.5°	25.3	25.3	25.3	23.6	26.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)