

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: P291715

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291715
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2451.0 lumens
Efficiency: N/A
Efficacy: 73.0 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

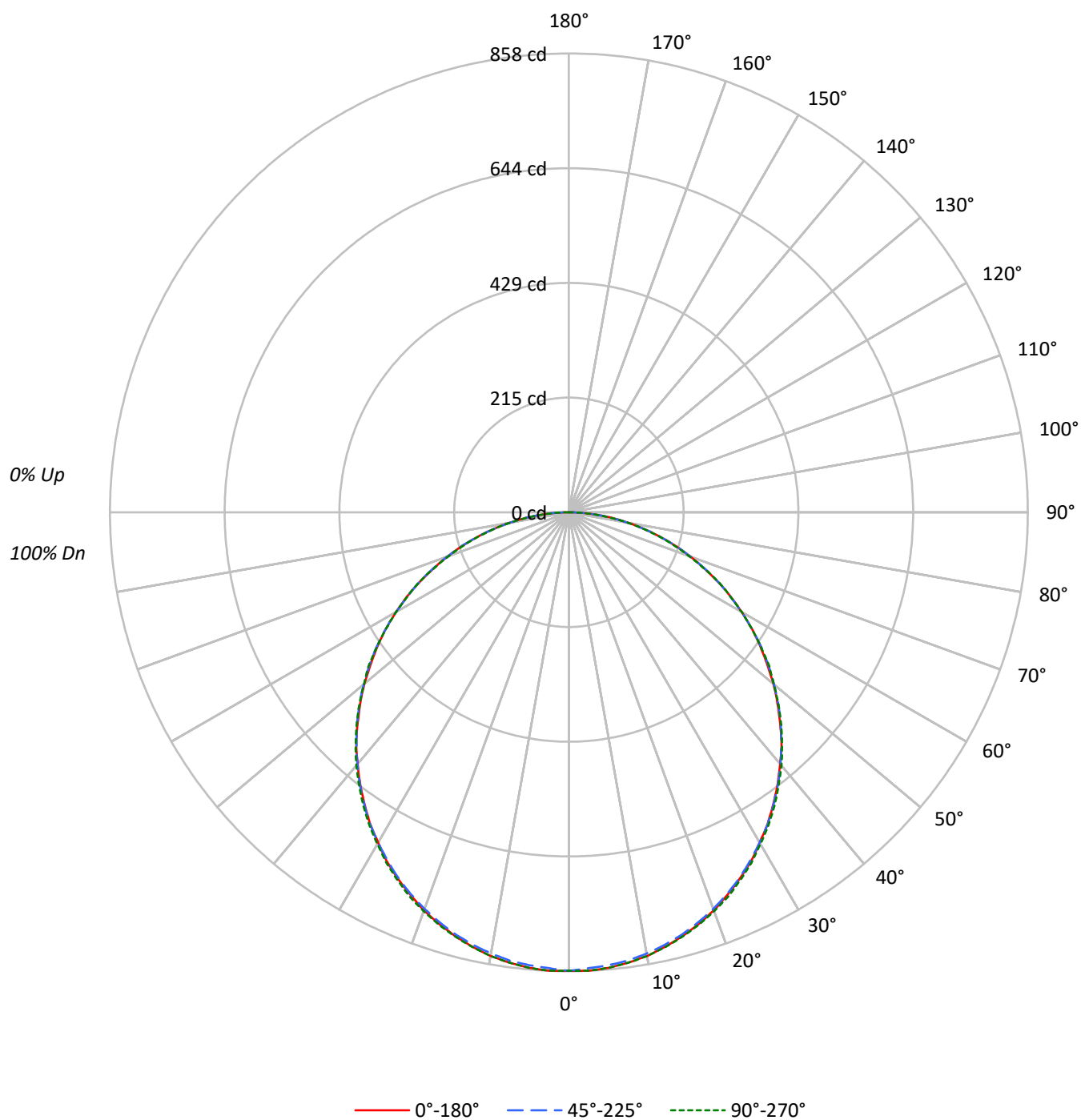
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2307	2307	2307
5°	2309	2296	2309
10°	2302	2289	2302
15°	2285	2277	2288
20°	2268	2259	2273
25°	2245	2240	2252
30°	2215	2215	2225
35°	2188	2190	2201
40°	2158	2161	2172
45°	2126	2132	2135
50°	2089	2096	2093
55°	2047	2059	2055
60°	2007	2007	2007
65°	1961	1961	1971
70°	1899	1899	1880
75°	1833	1825	1816
80°	1748	1736	1725
85°	1646	1621	1572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.1	3.3
10°-20°	231.3	9.4
20°-30°	348.6	14.2
30°-40°	417.8	17.0
40°-50°	432.0	17.6
50°-60°	391.7	16.0
60°-70°	304.4	12.4
70°-80°	185.9	7.6
80°-90°	58.2	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°	661.0	27.0
0°-40°	1078.8	44.0
0°-60°	1902.5	77.6
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	857	857	857	857	857	
5°	855	854	850	854	855	81
15°	820	820	817	821	821	231
25°	756	756	754	759	758	348
35°	666	667	667	670	670	417
45°	559	559	560	561	561	431
55°	436	438	439	439	438	390
65°	308	308	308	306	310	304
75°	176	176	176	175	175	186
85°	53	52	52	51	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.2	857.2	857.2	857.2	857.2
2.5°	857.9	857.2	853.2	857.2	857.9
5°	854.8	854.0	850.1	854.0	854.8
7.5°	849.3	849.3	845.4	849.3	849.3
10°	842.3	841.5	837.6	841.5	842.3
12.5°	832.1	832.1	828.2	832.1	832.9
15°	820.3	820.3	817.2	821.1	821.1
17.5°	807.0	807.8	803.9	808.6	808.6
20°	792.1	791.3	789.0	792.9	793.7
22.5°	774.1	774.9	772.5	777.2	778.0
25°	756.1	756.1	754.5	759.2	758.4
27.5°	736.5	736.5	734.2	738.1	738.9
30°	713.0	713.8	713.0	716.9	716.1
32.5°	691.1	691.8	691.8	693.4	694.2
35°	666.0	666.8	666.8	669.9	669.9
37.5°	640.9	640.9	641.7	644.0	644.0
40°	614.3	615.1	615.1	617.4	618.2
42.5°	588.4	586.9	587.6	590.0	590.0
45°	558.6	559.4	560.2	561.0	561.0
47.5°	528.9	530.4	531.2	532.0	531.2
50°	499.1	500.7	500.7	499.9	499.9
52.5°	467.0	470.9	470.1	470.1	471.7
55°	436.4	438.0	438.8	438.8	438.0
57.5°	405.9	407.4	405.9	406.6	405.1
60°	373.0	373.7	373.0	373.0	373.0
62.5°	340.8	341.6	340.0	340.0	340.0
65°	307.9	307.9	307.9	306.4	309.5
67.5°	273.4	275.0	275.0	275.8	272.7
70°	241.3	242.1	241.3	240.5	239.0
72.5°	209.2	210.0	210.8	207.6	206.8
75°	176.3	176.3	175.5	174.7	174.7
77.5°	144.2	144.2	144.2	142.6	142.6
80°	112.8	113.6	112.0	112.0	111.3
82.5°	82.3	82.3	82.3	81.5	79.9
85°	53.3	51.7	52.5	50.9	50.9
87.5°	24.3	24.3	24.3	22.7	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)