

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: P291599

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291599
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-LD5-32-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: 2295.0 lumens
Efficiency: N/A
Efficacy: 89.4 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

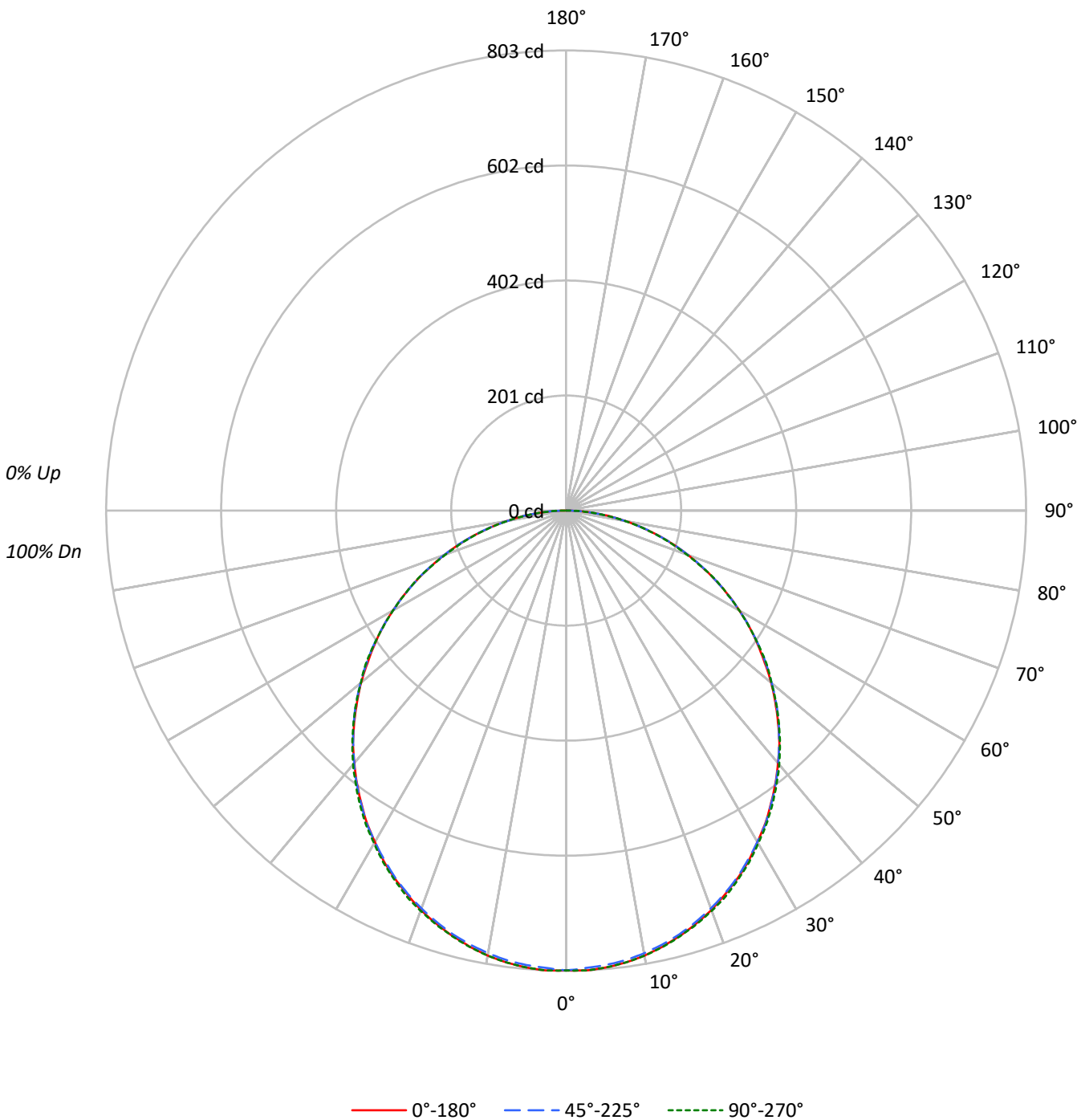
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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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°	2160	2160	2160
5°	2162	2150	2162
10°	2155	2143	2155
15°	2140	2132	2142
20°	2124	2116	2128
25°	2102	2098	2109
30°	2074	2074	2084
35°	2049	2051	2061
40°	2021	2023	2033
45°	1991	1996	1999
50°	1956	1963	1960
55°	1917	1927	1924
60°	1879	1879	1879
65°	1836	1836	1845
70°	1778	1778	1761
75°	1717	1708	1701
80°	1636	1626	1615
85°	1541	1519	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.3
10°-20°	216.6	9.4
20°-30°	326.4	14.2
30°-40°	391.2	17.0
40°-50°	404.5	17.6
50°-60°	366.8	16.0
60°-70°	285.0	12.4
70°-80°	174.1	7.6
80°-90°	54.5	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°	618.9	27.0
0°-40°	1010.1	44.0
0°-60°	1781.4	77.6
0°-90°	2295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	800	800	796	800	800	76
15°	768	768	765	769	769	217
25°	708	708	706	711	710	326
35°	624	624	624	627	627	390
45°	523	524	525	525	525	404
55°	409	410	411	411	410	366
65°	288	288	288	287	290	285
75°	165	165	164	164	164	175
85°	50	48	49	48	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.6	802.6	802.6	802.6	802.6
2.5°	803.3	802.6	798.9	802.6	803.3
5°	800.4	799.7	796.0	799.7	800.4
7.5°	795.3	795.3	791.6	795.3	795.3
10°	788.7	787.9	784.3	787.9	788.7
12.5°	779.1	779.1	775.5	779.1	779.9
15°	768.1	768.1	765.2	768.9	768.9
17.5°	755.7	756.4	752.7	757.1	757.1
20°	741.7	741.0	738.8	742.4	743.2
22.5°	724.8	725.6	723.4	727.8	728.5
25°	708.0	708.0	706.5	710.9	710.2
27.5°	689.6	689.6	687.4	691.1	691.8
30°	667.6	668.4	667.6	671.3	670.6
32.5°	647.1	647.8	647.8	649.3	650.0
35°	623.6	624.3	624.3	627.3	627.3
37.5°	600.1	600.1	600.9	603.1	603.1
40°	575.2	575.9	575.9	578.1	578.8
42.5°	551.0	549.5	550.2	552.4	552.4
45°	523.1	523.8	524.6	525.3	525.3
47.5°	495.2	496.7	497.4	498.1	497.4
50°	467.3	468.8	468.8	468.1	468.1
52.5°	437.3	440.9	440.2	440.2	441.7
55°	408.6	410.1	410.8	410.8	410.1
57.5°	380.0	381.5	380.0	380.8	379.3
60°	349.2	349.9	349.2	349.2	349.2
62.5°	319.1	319.9	318.4	318.4	318.4
65°	288.3	288.3	288.3	286.9	289.8
67.5°	256.0	257.5	257.5	258.2	255.3
70°	226.0	226.7	226.0	225.2	223.8
72.5°	195.9	196.6	197.4	194.4	193.7
75°	165.1	165.1	164.3	163.6	163.6
77.5°	135.0	135.0	135.0	133.5	133.5
80°	105.6	106.4	104.9	104.9	104.2
82.5°	77.0	77.0	77.0	76.3	74.8
85°	49.9	48.4	49.2	47.7	47.7
87.5°	22.7	22.7	22.7	21.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)