

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: P291598

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291598
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-LD5-28-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2303.0 lumens
Efficiency: N/A
Efficacy: 99.1 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

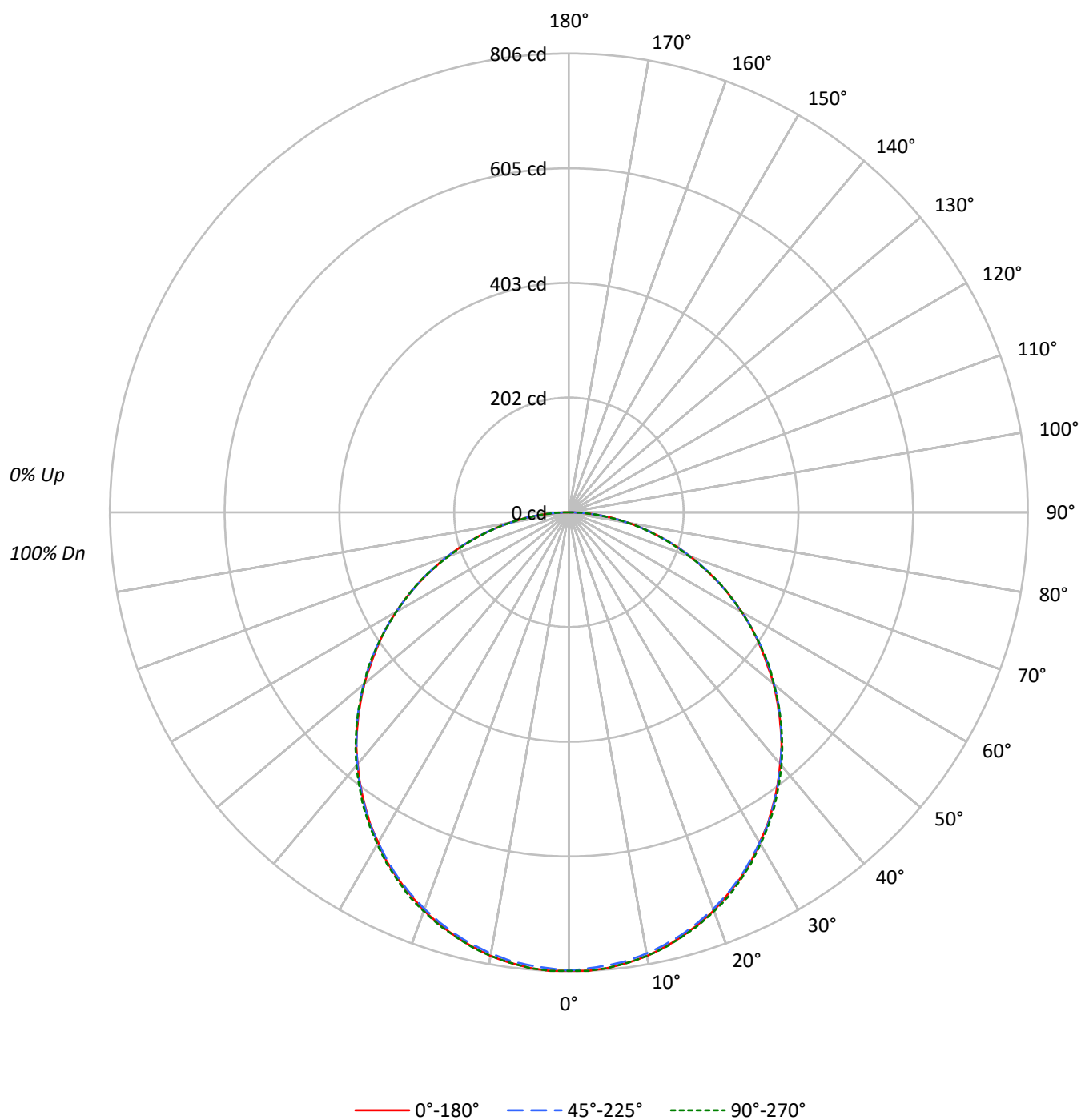
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2167	2167	2167
5°	2170	2158	2170
10°	2162	2150	2162
15°	2147	2139	2149
20°	2131	2123	2136
25°	2109	2105	2116
30°	2082	2082	2091
35°	2056	2058	2068
40°	2028	2030	2041
45°	1998	2003	2006
50°	1963	1969	1966
55°	1924	1934	1931
60°	1886	1886	1886
65°	1842	1842	1852
70°	1784	1784	1766
75°	1722	1714	1707
80°	1643	1632	1619
85°	1547	1522	1479



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	3.3
10°-20°	217.4	9.4
20°-30°	327.6	14.2
30°-40°	392.5	17.0
40°-50°	405.9	17.6
50°-60°	368.1	16.0
60°-70°	286.0	12.4
70°-80°	174.7	7.6
80°-90°	54.7	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°	621.1	27.0
0°-40°	1013.6	44.0
0°-60°	1787.6	77.6
0°-90°	2303.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2303.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	805	805	805	805	805	
5°	803	802	799	802	803	76
15°	771	771	768	772	772	218
25°	710	710	709	713	713	327
35°	626	626	626	630	630	392
45°	525	526	526	527	527	405
55°	410	412	412	412	412	367
65°	289	289	289	288	291	286
75°	166	166	165	164	164	175
85°	50	49	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°	805.4	805.4	805.4	805.4	805.4
2.5°	806.1	805.4	801.7	805.4	806.1
5°	803.2	802.5	798.8	802.5	803.2
7.5°	798.0	798.0	794.4	798.0	798.0
10°	791.4	790.7	787.0	790.7	791.4
12.5°	781.8	781.8	778.2	781.8	782.6
15°	770.8	770.8	767.9	771.5	771.5
17.5°	758.3	759.0	755.3	759.8	759.8
20°	744.3	743.6	741.4	745.0	745.8
22.5°	727.4	728.1	725.9	730.3	731.0
25°	710.4	710.4	709.0	713.4	712.6
27.5°	692.0	692.0	689.8	693.5	694.2
30°	669.9	670.7	669.9	673.6	672.9
32.5°	649.3	650.1	650.1	651.5	652.3
35°	625.8	626.5	626.5	629.5	629.5
37.5°	602.2	602.2	602.9	605.2	605.2
40°	577.2	577.9	577.9	580.1	580.9
42.5°	552.9	551.4	552.2	554.4	554.4
45°	524.9	525.6	526.4	527.1	527.1
47.5°	496.9	498.4	499.1	499.9	499.1
50°	469.0	470.4	470.4	469.7	469.7
52.5°	438.8	442.5	441.7	441.7	443.2
55°	410.1	411.5	412.3	412.3	411.5
57.5°	381.4	382.8	381.4	382.1	380.6
60°	350.4	351.2	350.4	350.4	350.4
62.5°	320.2	321.0	319.5	319.5	319.5
65°	289.3	289.3	289.3	287.9	290.8
67.5°	256.9	258.4	258.4	259.1	256.2
70°	226.8	227.5	226.8	226.0	224.5
72.5°	196.6	197.3	198.0	195.1	194.4
75°	165.6	165.6	164.9	164.2	164.2
77.5°	135.5	135.5	135.5	134.0	134.0
80°	106.0	106.7	105.3	105.3	104.5
82.5°	77.3	77.3	77.3	76.6	75.1
85°	50.1	48.6	49.3	47.9	47.9
87.5°	22.8	22.8	22.8	21.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)