

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: P291549

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291549
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-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2313.0 lumens
Efficiency: N/A
Efficacy: 101.9 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

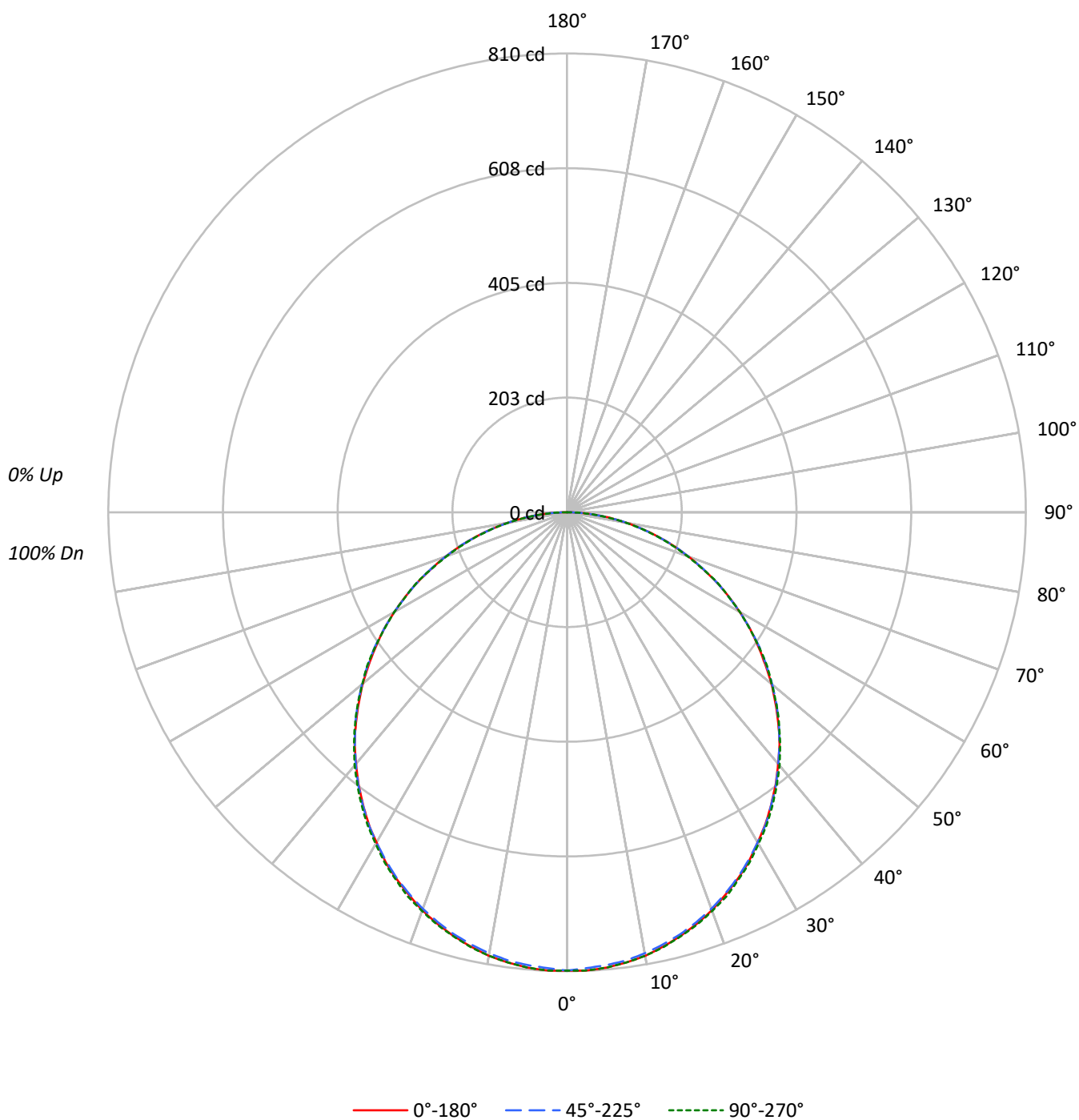
Input Watts (W): 22.692
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2177	2177	2177
5°	2179	2167	2179
10°	2172	2160	2172
15°	2157	2148	2159
20°	2141	2132	2145
25°	2119	2114	2125
30°	2091	2091	2100
35°	2065	2067	2077
40°	2036	2039	2049
45°	2006	2012	2015
50°	1972	1978	1975
55°	1932	1943	1939
60°	1894	1894	1894
65°	1850	1850	1860
70°	1792	1792	1774
75°	1730	1722	1714
80°	1650	1638	1627
85°	1553	1528	1485



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.5	3.3
10°-20°	218.3	9.4
20°-30°	329.0	14.2
30°-40°	394.2	17.0
40°-50°	407.7	17.6
50°-60°	369.7	16.0
60°-70°	287.3	12.4
70°-80°	175.5	7.6
80°-90°	54.9	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°	623.8	27.0
0°-40°	1018.0	44.0
0°-60°	1795.3	77.6
0°-90°	2313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	809	809	809	809	809	
5°	807	806	802	806	807	77
15°	774	774	771	775	775	218
25°	714	714	712	716	716	329
35°	628	629	629	632	632	393
45°	527	528	529	529	529	407
55°	412	413	414	414	413	368
65°	291	291	291	289	292	287
75°	166	166	166	165	165	176
85°	50	49	50	48	48	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	808.9	808.9	808.9	808.9	808.9
2.5°	809.6	808.9	805.2	808.9	809.6
5°	806.7	805.9	802.2	805.9	806.7
7.5°	801.5	801.5	797.8	801.5	801.5
10°	794.9	794.1	790.4	794.1	794.9
12.5°	785.2	785.2	781.5	785.2	786.0
15°	774.2	774.2	771.2	774.9	774.9
17.5°	761.6	762.3	758.6	763.1	763.1
20°	747.5	746.8	744.6	748.3	749.0
22.5°	730.5	731.3	729.0	733.5	734.2
25°	713.5	713.5	712.0	716.5	715.7
27.5°	695.0	695.0	692.8	696.5	697.3
30°	672.9	673.6	672.9	676.5	675.8
32.5°	652.1	652.9	652.9	654.4	655.1
35°	628.5	629.2	629.2	632.2	632.2
37.5°	604.8	604.8	605.6	607.8	607.8
40°	579.7	580.4	580.4	582.6	583.4
42.5°	555.3	553.8	554.5	556.8	556.8
45°	527.2	527.9	528.7	529.4	529.4
47.5°	499.1	500.6	501.3	502.1	501.3
50°	471.0	472.5	472.5	471.7	471.7
52.5°	440.7	444.4	443.6	443.6	445.1
55°	411.8	413.3	414.1	414.1	413.3
57.5°	383.0	384.5	383.0	383.7	382.3
60°	352.0	352.7	352.0	352.0	352.0
62.5°	321.6	322.4	320.9	320.9	320.9
65°	290.6	290.6	290.6	289.1	292.1
67.5°	258.1	259.5	259.5	260.3	257.3
70°	227.7	228.5	227.7	227.0	225.5
72.5°	197.4	198.2	198.9	195.9	195.2
75°	166.4	166.4	165.6	164.9	164.9
77.5°	136.0	136.0	136.0	134.6	134.6
80°	106.5	107.2	105.7	105.7	105.0
82.5°	77.6	77.6	77.6	76.9	75.4
85°	50.3	48.8	49.5	48.1	48.1
87.5°	22.9	22.9	22.9	21.4	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)