

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: P291597

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291597
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2297.0 lumens
Efficiency: N/A
Efficacy: 100.4 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

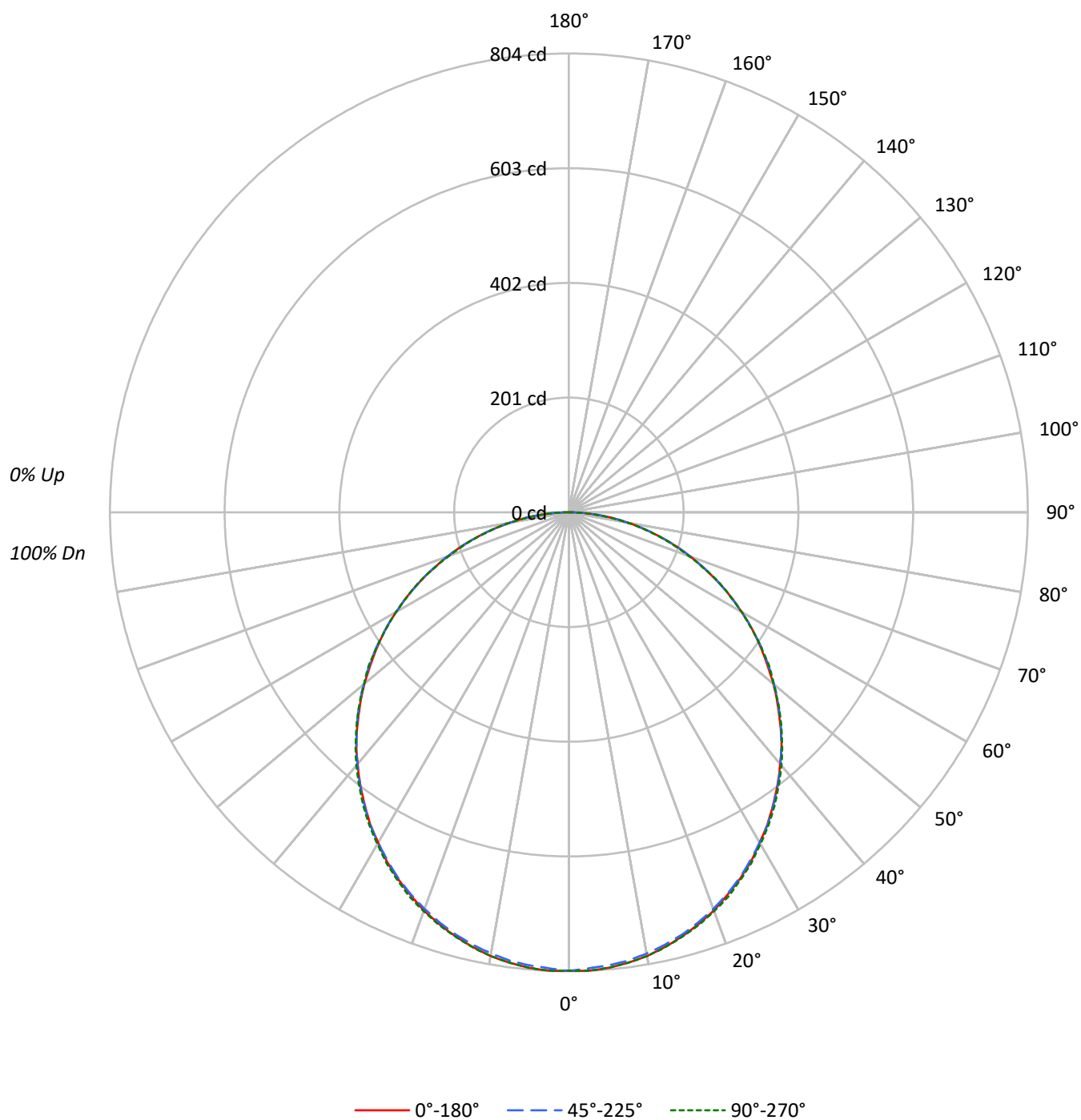
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2162	2162	2162
5°	2164	2152	2164
10°	2157	2145	2157
15°	2142	2134	2144
20°	2126	2117	2130
25°	2104	2099	2110
30°	2076	2076	2085
35°	2050	2053	2062
40°	2022	2025	2035
45°	1992	1998	2001
50°	1958	1964	1961
55°	1919	1929	1926
60°	1881	1881	1881
65°	1838	1838	1847
70°	1780	1780	1762
75°	1718	1710	1702
80°	1638	1627	1616
85°	1541	1519	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.3
10°-20°	216.8	9.4
20°-30°	326.7	14.2
30°-40°	391.5	17.0
40°-50°	404.8	17.6
50°-60°	367.1	16.0
60°-70°	285.3	12.4
70°-80°	174.2	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°	619.5	27.0
0°-40°	1011.0	44.0
0°-60°	1782.9	77.6
0°-90°	2297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2297.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	801	800	797	800	801	76
15°	769	769	766	770	770	217
25°	709	709	707	712	711	326
35°	624	625	625	628	628	391
45°	524	524	525	526	526	404
55°	409	410	411	411	410	366
65°	289	289	289	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°	803.3	803.3	803.3	803.3	803.3
2.5°	804.0	803.3	799.6	803.3	804.0
5°	801.1	800.4	796.7	800.4	801.1
7.5°	796.0	796.0	792.3	796.0	796.0
10°	789.4	788.6	784.9	788.6	789.4
12.5°	779.8	779.8	776.1	779.8	780.5
15°	768.8	768.8	765.9	769.5	769.5
17.5°	756.3	757.0	753.4	757.8	757.8
20°	742.4	741.6	739.4	743.1	743.8
22.5°	725.5	726.2	724.0	728.4	729.1
25°	708.6	708.6	707.1	711.5	710.8
27.5°	690.2	690.2	688.0	691.7	692.4
30°	668.2	668.9	668.2	671.9	671.1
32.5°	647.6	648.4	648.4	649.8	650.6
35°	624.1	624.9	624.9	627.8	627.8
37.5°	600.6	600.6	601.4	603.6	603.6
40°	575.7	576.4	576.4	578.6	579.4
42.5°	551.4	550.0	550.7	552.9	552.9
45°	523.5	524.3	525.0	525.7	525.7
47.5°	495.6	497.1	497.8	498.6	497.8
50°	467.7	469.2	469.2	468.5	468.5
52.5°	437.6	441.3	440.6	440.6	442.0
55°	409.0	410.5	411.2	411.2	410.5
57.5°	380.4	381.8	380.4	381.1	379.6
60°	349.5	350.3	349.5	349.5	349.5
62.5°	319.4	320.1	318.7	318.7	318.7
65°	288.6	288.6	288.6	287.1	290.0
67.5°	256.3	257.7	257.7	258.5	255.5
70°	226.2	226.9	226.2	225.4	224.0
72.5°	196.1	196.8	197.5	194.6	193.9
75°	165.2	165.2	164.5	163.7	163.7
77.5°	135.1	135.1	135.1	133.6	133.6
80°	105.7	106.5	105.0	105.0	104.3
82.5°	77.1	77.1	77.1	76.4	74.9
85°	49.9	48.5	49.2	47.7	47.7
87.5°	22.8	22.8	22.8	21.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)