

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: P291596

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291596
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2291.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

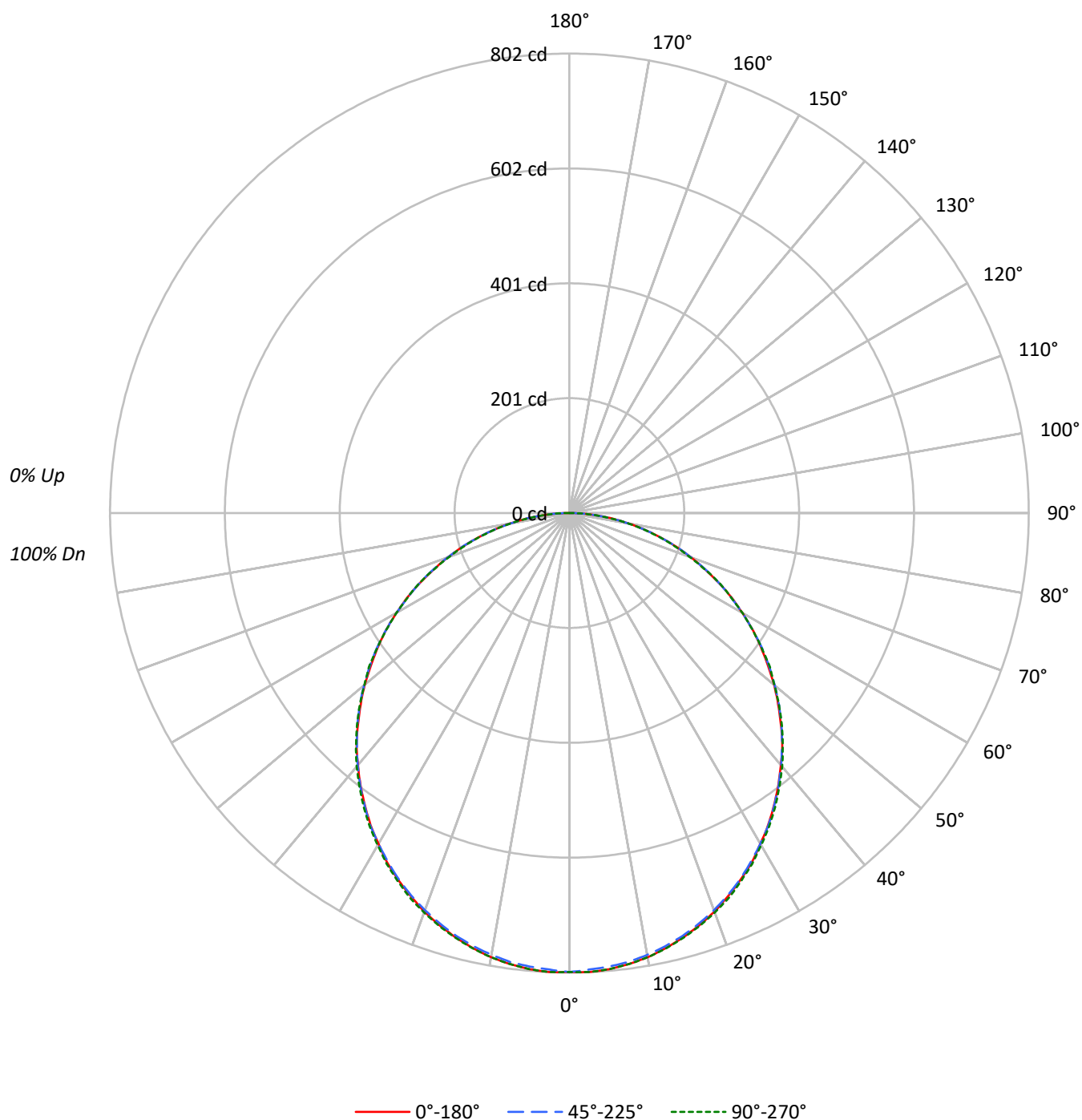
Input Watts (W): 22.878
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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°	2156	2156	2156
5°	2158	2146	2158
10°	2151	2139	2151
15°	2136	2128	2138
20°	2120	2112	2125
25°	2098	2094	2105
30°	2071	2071	2080
35°	2045	2047	2057
40°	2017	2020	2030
45°	1987	1993	1996
50°	1953	1959	1956
55°	1914	1924	1921
60°	1876	1876	1876
65°	1833	1833	1842
70°	1775	1775	1758
75°	1713	1705	1698
80°	1635	1623	1612
85°	1538	1516	1470



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	3.3
10°-20°	216.2	9.4
20°-30°	325.8	14.2
30°-40°	390.5	17.0
40°-50°	403.8	17.6
50°-60°	366.1	16.0
60°-70°	284.5	12.4
70°-80°	173.8	7.6
80°-90°	54.4	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°	617.8	27.0
0°-40°	1008.3	44.0
0°-60°	1778.3	77.6
0°-90°	2291.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2291.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	801	801	801	801	801	
5°	799	798	795	798	799	76
15°	767	767	764	768	768	216
25°	707	707	705	710	709	326
35°	622	623	623	626	626	390
45°	522	523	524	524	524	403
55°	408	409	410	410	409	365
65°	288	288	288	286	289	284
75°	165	165	164	163	163	174
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°	801.2	801.2	801.2	801.2	801.2
2.5°	801.9	801.2	797.5	801.2	801.9
5°	799.0	798.3	794.6	798.3	799.0
7.5°	793.9	793.9	790.2	793.9	793.9
10°	787.3	786.6	782.9	786.6	787.3
12.5°	777.8	777.8	774.1	777.8	778.5
15°	766.8	766.8	763.9	767.5	767.5
17.5°	754.3	755.1	751.4	755.8	755.8
20°	740.4	739.7	737.5	741.2	741.9
22.5°	723.6	724.3	722.1	726.5	727.2
25°	706.7	706.7	705.3	709.7	708.9
27.5°	688.4	688.4	686.2	689.9	690.6
30°	666.5	667.2	666.5	670.1	669.4
32.5°	645.9	646.7	646.7	648.1	648.9
35°	622.5	623.2	623.2	626.2	626.2
37.5°	599.1	599.1	599.8	602.0	602.0
40°	574.2	574.9	574.9	577.1	577.8
42.5°	550.0	548.5	549.3	551.5	551.5
45°	522.2	522.9	523.6	524.4	524.4
47.5°	494.3	495.8	496.5	497.3	496.5
50°	466.5	468.0	468.0	467.2	467.2
52.5°	436.5	440.2	439.4	439.4	440.9
55°	407.9	409.4	410.1	410.1	409.4
57.5°	379.4	380.8	379.4	380.1	378.6
60°	348.6	349.3	348.6	348.6	348.6
62.5°	318.6	319.3	317.8	317.8	317.8
65°	287.8	287.8	287.8	286.4	289.3
67.5°	255.6	257.1	257.1	257.8	254.9
70°	225.6	226.3	225.6	224.8	223.4
72.5°	195.5	196.3	197.0	194.1	193.3
75°	164.8	164.8	164.0	163.3	163.3
77.5°	134.8	134.8	134.8	133.3	133.3
80°	105.5	106.2	104.7	104.7	104.0
82.5°	76.9	76.9	76.9	76.2	74.7
85°	49.8	48.3	49.1	47.6	47.6
87.5°	22.7	22.7	22.7	21.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)