

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: P291647

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291647
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2023.0 lumens
Efficiency: N/A
Efficacy: 88.8 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

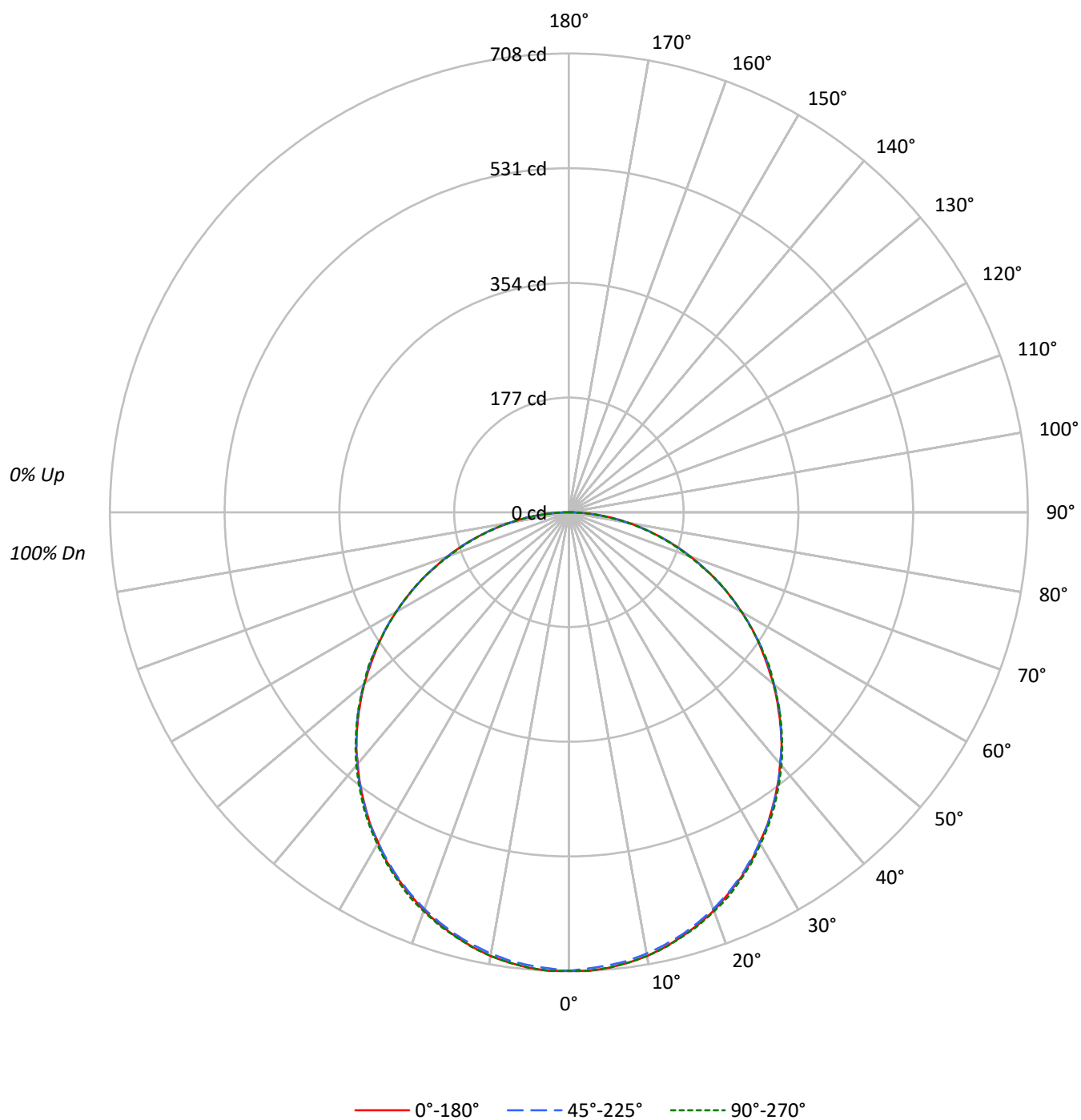
Input Watts (W): 22.785
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1904	1904	1904
5°	1906	1895	1906
10°	1900	1889	1900
15°	1886	1879	1888
20°	1872	1865	1876
25°	1853	1849	1859
30°	1829	1829	1837
35°	1806	1808	1816
40°	1781	1783	1792
45°	1755	1760	1762
50°	1724	1730	1727
55°	1690	1699	1696
60°	1657	1657	1657
65°	1619	1619	1626
70°	1567	1567	1552
75°	1513	1507	1499
80°	1443	1433	1423
85°	1359	1337	1297



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	3.3
10°-20°	190.9	9.4
20°-30°	287.7	14.2
30°-40°	344.8	17.0
40°-50°	356.6	17.6
50°-60°	323.3	16.0
60°-70°	251.3	12.4
70°-80°	153.5	7.6
80°-90°	48.0	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°	545.6	27.0
0°-40°	890.4	44.0
0°-60°	1570.2	77.6
0°-90°	2023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2023.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	706	705	702	705	706	67
15°	677	677	674	678	678	191
25°	624	624	623	627	626	288
35°	550	550	550	553	553	344
45°	461	462	462	463	463	356
55°	360	362	362	362	362	322
65°	254	254	254	253	255	251
75°	146	146	145	144	144	154
85°	44	43	43	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	707.5	707.5	707.5	707.5	707.5
2.5°	708.1	707.5	704.3	707.5	708.1
5°	705.5	704.9	701.7	704.9	705.5
7.5°	701.0	701.0	697.8	701.0	701.0
10°	695.2	694.5	691.3	694.5	695.2
12.5°	686.8	686.8	683.6	686.8	687.4
15°	677.1	677.1	674.5	677.7	677.7
17.5°	666.1	666.7	663.5	667.4	667.4
20°	653.8	653.2	651.2	654.5	655.1
22.5°	638.9	639.6	637.6	641.5	642.2
25°	624.1	624.1	622.8	626.6	626.0
27.5°	607.9	607.9	606.0	609.2	609.8
30°	588.5	589.1	588.5	591.7	591.1
32.5°	570.4	571.0	571.0	572.3	573.0
35°	549.7	550.3	550.3	552.9	552.9
37.5°	529.0	529.0	529.6	531.6	531.6
40°	507.0	507.7	507.7	509.6	510.2
42.5°	485.7	484.4	485.0	487.0	487.0
45°	461.1	461.7	462.4	463.0	463.0
47.5°	436.5	437.8	438.5	439.1	438.5
50°	411.9	413.2	413.2	412.6	412.6
52.5°	385.4	388.7	388.0	388.0	389.3
55°	360.2	361.5	362.1	362.1	361.5
57.5°	335.0	336.3	335.0	335.6	334.3
60°	307.8	308.5	307.8	307.8	307.8
62.5°	281.3	282.0	280.7	280.7	280.7
65°	254.2	254.2	254.2	252.9	255.4
67.5°	225.7	227.0	227.0	227.6	225.0
70°	199.2	199.8	199.2	198.5	197.2
72.5°	172.7	173.3	174.0	171.4	170.7
75°	145.5	145.5	144.9	144.2	144.2
77.5°	119.0	119.0	119.0	117.7	117.7
80°	93.1	93.8	92.5	92.5	91.8
82.5°	67.9	67.9	67.9	67.3	66.0
85°	44.0	42.7	43.3	42.0	42.0
87.5°	20.0	20.0	20.0	18.8	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)