

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: P291707

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291707
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-LD5-36-FGW080-UNV-L92765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2278.0 lumens
Efficiency: N/A
Efficacy: 78.5 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

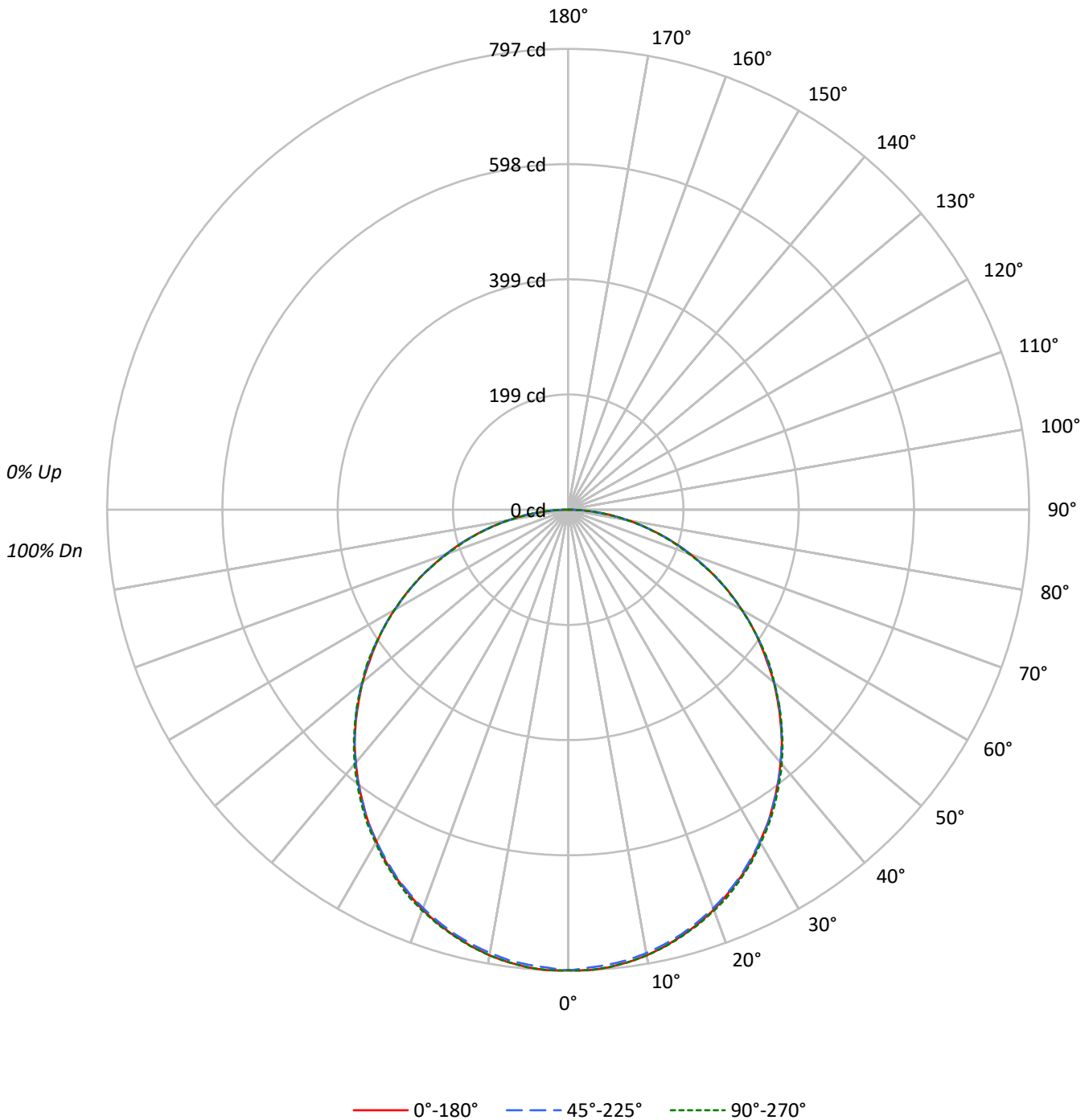
Input Watts (W): 29.016
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2144	2144	2144
5°	2146	2134	2146
10°	2139	2127	2139
15°	2124	2116	2126
20°	2108	2100	2113
25°	2086	2082	2093
30°	2059	2059	2068
35°	2033	2036	2045
40°	2005	2008	2018
45°	1976	1982	1984
50°	1942	1948	1945
55°	1903	1913	1910
60°	1865	1865	1865
65°	1822	1822	1831
70°	1765	1765	1747
75°	1703	1696	1688
80°	1626	1613	1602
85°	1528	1507	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	3.3
10°-20°	215.0	9.4
20°-30°	324.0	14.2
30°-40°	388.3	17.0
40°-50°	401.5	17.6
50°-60°	364.1	16.0
60°-70°	282.9	12.4
70°-80°	172.8	7.6
80°-90°	54.1	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°	614.3	27.0
0°-40°	1002.6	44.0
0°-60°	1768.2	77.6
0°-90°	2278.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2278.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	797	797	797	797	797	
5°	794	794	790	794	794	75
15°	762	762	760	763	763	215
25°	703	703	701	706	705	324
35°	619	620	620	623	623	387
45°	519	520	521	521	521	401
55°	406	407	408	408	407	363
65°	286	286	286	285	288	283
75°	164	164	163	162	162	173
85°	50	48	49	47	47	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	796.7	796.7	796.7	796.7	796.7
2.5°	797.4	796.7	793.0	796.7	797.4
5°	794.5	793.7	790.1	793.7	794.5
7.5°	789.4	789.4	785.7	789.4	789.4
10°	782.8	782.1	778.5	782.1	782.8
12.5°	773.4	773.4	769.7	773.4	774.1
15°	762.4	762.4	759.5	763.2	763.2
17.5°	750.1	750.8	747.1	751.5	751.5
20°	736.2	735.5	733.3	736.9	737.7
22.5°	719.5	720.2	718.0	722.4	723.1
25°	702.7	702.7	701.3	705.6	704.9
27.5°	684.5	684.5	682.3	686.0	686.7
30°	662.7	663.4	662.7	666.3	665.6
32.5°	642.3	643.0	643.0	644.5	645.2
35°	619.0	619.7	619.7	622.6	622.6
37.5°	595.7	595.7	596.4	598.6	598.6
40°	570.9	571.6	571.6	573.8	574.6
42.5°	546.9	545.4	546.2	548.3	548.3
45°	519.2	519.9	520.7	521.4	521.4
47.5°	491.5	493.0	493.7	494.5	493.7
50°	463.9	465.3	465.3	464.6	464.6
52.5°	434.0	437.7	436.9	436.9	438.4
55°	405.6	407.1	407.8	407.8	407.1
57.5°	377.2	378.7	377.2	377.9	376.5
60°	346.6	347.4	346.6	346.6	346.6
62.5°	316.8	317.5	316.0	316.0	316.0
65°	286.2	286.2	286.2	284.7	287.6
67.5°	254.1	255.6	255.6	256.3	253.4
70°	224.3	225.0	224.3	223.6	222.1
72.5°	194.4	195.2	195.9	193.0	192.2
75°	163.8	163.8	163.1	162.4	162.4
77.5°	134.0	134.0	134.0	132.5	132.5
80°	104.9	105.6	104.1	104.1	103.4
82.5°	76.5	76.5	76.5	75.7	74.3
85°	49.5	48.1	48.8	47.3	47.3
87.5°	22.6	22.6	22.6	21.1	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)