

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: P291698

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291698
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-LD5-32-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: 2038.0 lumens
Efficiency: N/A
Efficacy: 80.3 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

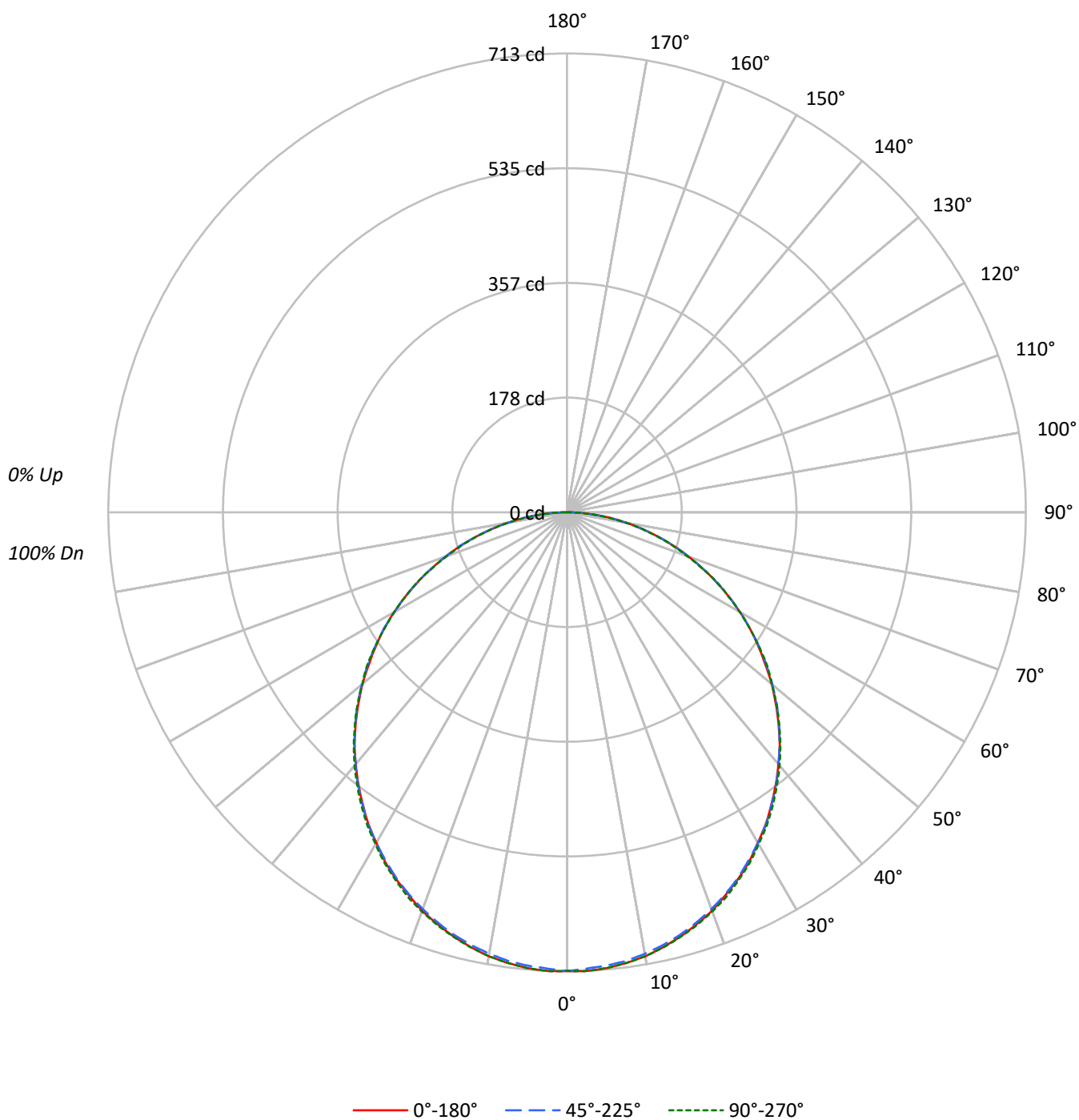
Input Watts (W): 25.389
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1918	1918	1918
5°	1920	1910	1920
10°	1914	1903	1914
15°	1900	1893	1902
20°	1886	1879	1890
25°	1867	1863	1872
30°	1842	1842	1850
35°	1819	1821	1830
40°	1794	1796	1806
45°	1768	1773	1775
50°	1737	1743	1740
55°	1703	1711	1709
60°	1669	1669	1669
65°	1630	1630	1638
70°	1579	1579	1563
75°	1524	1517	1511
80°	1454	1444	1433
85°	1368	1346	1306



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.3
10°-20°	192.3	9.4
20°-30°	289.9	14.2
30°-40°	347.4	17.0
40°-50°	359.2	17.6
50°-60°	325.7	16.0
60°-70°	253.1	12.4
70°-80°	154.6	7.6
80°-90°	48.4	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°	549.6	27.0
0°-40°	897.0	44.0
0°-60°	1581.9	77.6
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	711	710	707	710	711	68
15°	682	682	680	683	683	192
25°	629	629	627	631	631	290
35°	554	554	554	557	557	347
45°	464	465	466	466	466	358
55°	363	364	365	365	364	325
65°	256	256	256	255	257	253
75°	147	147	146	145	145	155
85°	44	43	44	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	712.7	712.7	712.7	712.7	712.7
2.5°	713.4	712.7	709.5	712.7	713.4
5°	710.8	710.1	706.9	710.1	710.8
7.5°	706.2	706.2	703.0	706.2	706.2
10°	700.4	699.7	696.4	699.7	700.4
12.5°	691.9	691.9	688.6	691.9	692.5
15°	682.1	682.1	679.5	682.8	682.8
17.5°	671.0	671.7	668.4	672.3	672.3
20°	658.7	658.0	656.0	659.3	660.0
22.5°	643.7	644.3	642.4	646.3	646.9
25°	628.7	628.7	627.4	631.3	630.6
27.5°	612.4	612.4	610.4	613.7	614.4
30°	592.9	593.5	592.9	596.1	595.5
32.5°	574.6	575.3	575.3	576.6	577.2
35°	553.8	554.4	554.4	557.0	557.0
37.5°	532.9	532.9	533.6	535.5	535.5
40°	510.8	511.4	511.4	513.4	514.0
42.5°	489.3	488.0	488.6	490.6	490.6
45°	464.5	465.2	465.8	466.5	466.5
47.5°	439.8	441.1	441.7	442.4	441.7
50°	415.0	416.3	416.3	415.7	415.7
52.5°	388.3	391.5	390.9	390.9	392.2
55°	362.9	364.2	364.8	364.8	364.2
57.5°	337.5	338.8	337.5	338.1	336.8
60°	310.1	310.8	310.1	310.1	310.1
62.5°	283.4	284.0	282.7	282.7	282.7
65°	256.0	256.0	256.0	254.7	257.3
67.5°	227.4	228.7	228.7	229.3	226.7
70°	200.7	201.3	200.7	200.0	198.7
72.5°	173.9	174.6	175.3	172.6	172.0
75°	146.6	146.6	145.9	145.3	145.3
77.5°	119.9	119.9	119.9	118.6	118.6
80°	93.8	94.5	93.2	93.2	92.5
82.5°	68.4	68.4	68.4	67.8	66.5
85°	44.3	43.0	43.6	42.3	42.3
87.5°	20.2	20.2	20.2	18.9	21.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)