

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: P291653

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291653
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-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2336.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

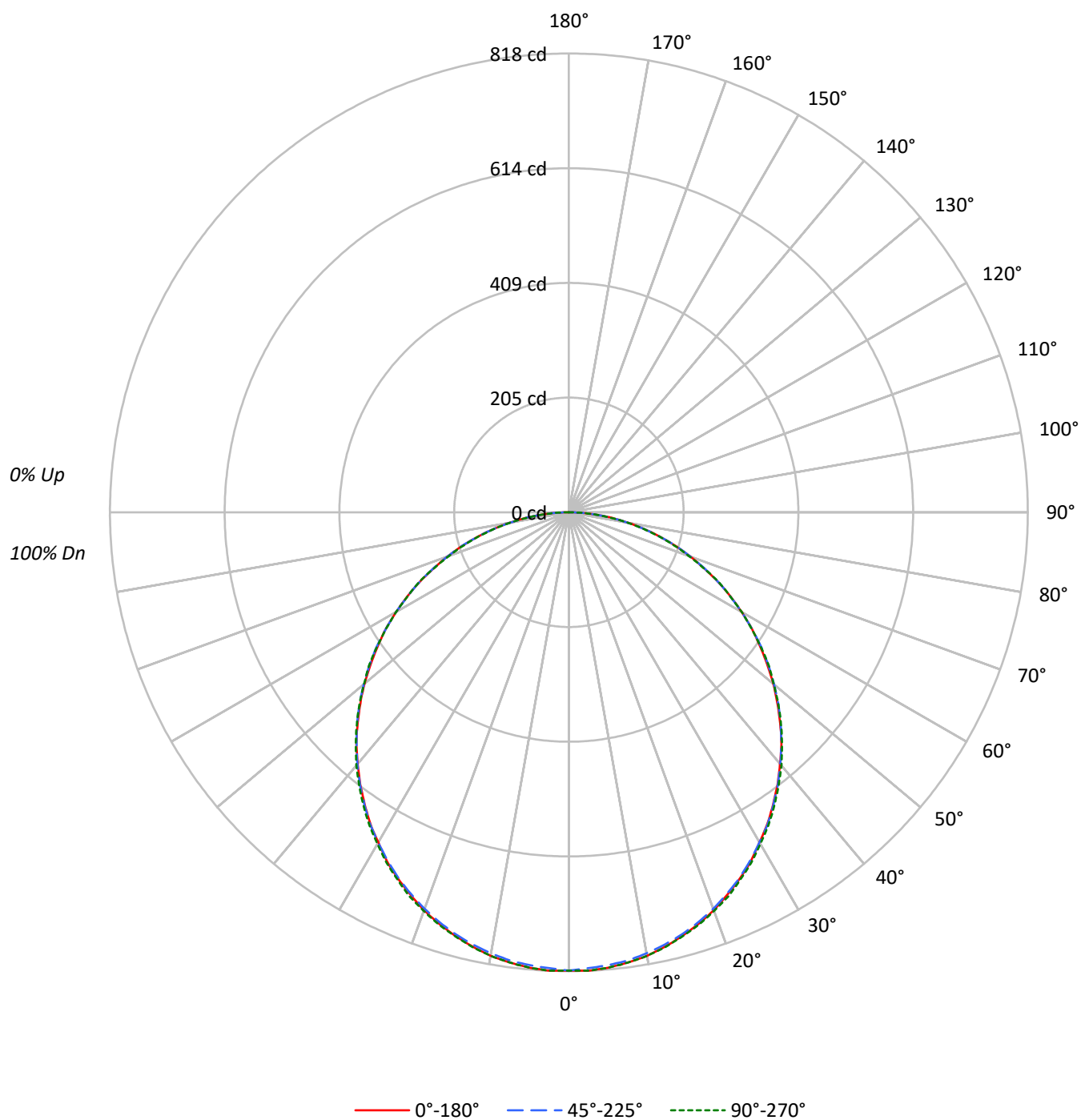
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2198	2198	2198
5°	2201	2189	2201
10°	2194	2181	2194
15°	2178	2170	2180
20°	2162	2153	2166
25°	2140	2135	2146
30°	2111	2111	2121
35°	2085	2088	2098
40°	2057	2059	2070
45°	2026	2032	2035
50°	1991	1998	1994
55°	1951	1962	1958
60°	1913	1913	1913
65°	1869	1869	1878
70°	1810	1810	1792
75°	1747	1739	1731
80°	1666	1655	1643
85°	1568	1544	1497



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.3	3.3
10°-20°	220.5	9.4
20°-30°	332.2	14.2
30°-40°	398.2	17.0
40°-50°	411.7	17.6
50°-60°	373.3	16.0
60°-70°	290.1	12.4
70°-80°	177.2	7.6
80°-90°	55.5	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°	630.0	27.0
0°-40°	1028.1	44.0
0°-60°	1813.2	77.6
0°-90°	2336.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	815	814	810	814	815	77
15°	782	782	779	783	783	221
25°	721	721	719	724	723	332
35°	635	636	636	638	638	397
45°	532	533	534	535	535	411
55°	416	417	418	418	417	372
65°	294	294	294	292	295	290
75°	168	168	167	166	166	178
85°	51	49	50	48	48	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.9	816.9	816.9	816.9	816.9
2.5°	817.7	816.9	813.2	816.9	817.7
5°	814.7	814.0	810.2	814.0	814.7
7.5°	809.5	809.5	805.7	809.5	809.5
10°	802.8	802.0	798.3	802.0	802.8
12.5°	793.0	793.0	789.3	793.0	793.8
15°	781.8	781.8	778.9	782.6	782.6
17.5°	769.2	769.9	766.2	770.6	770.6
20°	755.0	754.2	752.0	755.7	756.5
22.5°	737.8	738.5	736.3	740.8	741.5
25°	720.6	720.6	719.1	723.6	722.9
27.5°	701.9	701.9	699.7	703.4	704.2
30°	679.5	680.3	679.5	683.3	682.5
32.5°	658.6	659.4	659.4	660.9	661.6
35°	634.7	635.5	635.5	638.5	638.5
37.5°	610.8	610.8	611.6	613.8	613.8
40°	585.5	586.2	586.2	588.4	589.2
42.5°	560.8	559.3	560.1	562.3	562.3
45°	532.4	533.2	533.9	534.7	534.7
47.5°	504.1	505.6	506.3	507.0	506.3
50°	475.7	477.2	477.2	476.4	476.4
52.5°	445.1	448.8	448.1	448.1	449.5
55°	415.9	417.4	418.2	418.2	417.4
57.5°	386.8	388.3	386.8	387.6	386.1
60°	355.5	356.2	355.5	355.5	355.5
62.5°	324.8	325.6	324.1	324.1	324.1
65°	293.5	293.5	293.5	292.0	295.0
67.5°	260.6	262.1	262.1	262.9	259.9
70°	230.0	230.7	230.0	229.3	227.8
72.5°	199.4	200.1	200.9	197.9	197.1
75°	168.0	168.0	167.3	166.5	166.5
77.5°	137.4	137.4	137.4	135.9	135.9
80°	107.5	108.3	106.8	106.8	106.0
82.5°	78.4	78.4	78.4	77.7	76.2
85°	50.8	49.3	50.0	48.5	48.5
87.5°	23.1	23.1	23.1	21.7	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)