

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: P291586

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291586
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-LD5-24-FGW080-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1900.0 lumens
Efficiency: N/A
Efficacy: 101.6 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

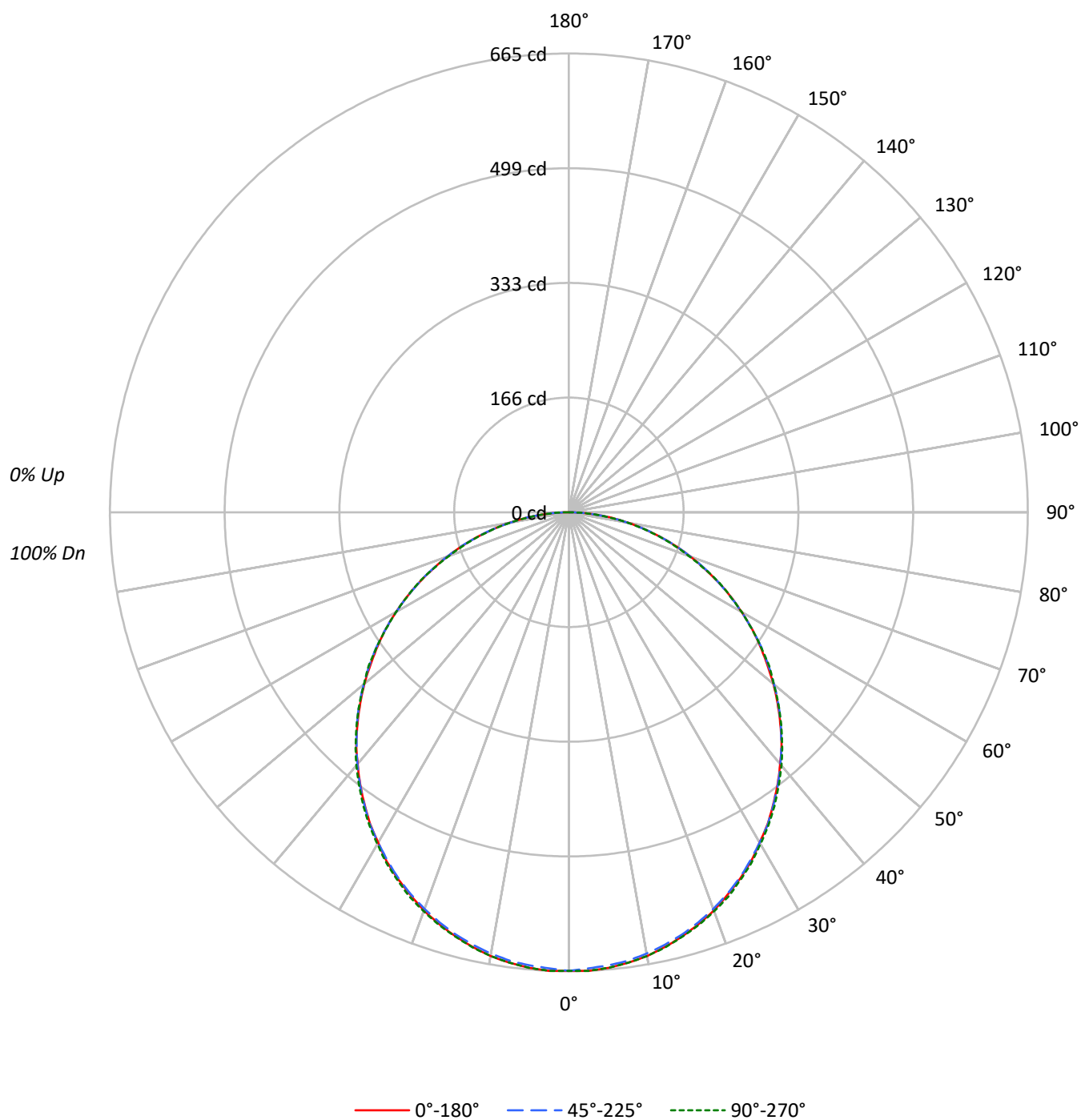
Input Watts (W): 18.693
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1788	1788	1788
5°	1790	1780	1790
10°	1784	1774	1784
15°	1772	1765	1773
20°	1759	1751	1762
25°	1740	1737	1746
30°	1717	1717	1725
35°	1696	1698	1706
40°	1673	1675	1683
45°	1648	1653	1655
50°	1620	1625	1622
55°	1587	1596	1593
60°	1556	1556	1556
65°	1520	1520	1528
70°	1472	1472	1457
75°	1421	1415	1408
80°	1356	1347	1336
85°	1275	1257	1220



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.8	3.3
10°-20°	179.3	9.4
20°-30°	270.2	14.2
30°-40°	323.8	17.0
40°-50°	334.9	17.6
50°-60°	303.6	16.0
60°-70°	236.0	12.4
70°-80°	144.2	7.6
80°-90°	45.1	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°	512.4	27.0
0°-40°	836.2	44.0
0°-60°	1474.7	77.6
0°-90°	1900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	664	664	664	664	664	
5°	663	662	659	662	663	63
15°	636	636	634	636	636	179
25°	586	586	585	588	588	270
35°	516	517	517	519	519	323
45°	433	434	434	435	435	334
55°	338	340	340	340	340	303
65°	239	239	239	238	240	236
75°	137	137	136	135	135	145
85°	41	40	41	40	40	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	664.5	664.5	664.5	664.5	664.5
2.5°	665.1	664.5	661.4	664.5	665.1
5°	662.6	662.0	659.0	662.0	662.6
7.5°	658.4	658.4	655.4	658.4	658.4
10°	652.9	652.3	649.3	652.3	652.9
12.5°	645.0	645.0	642.0	645.0	645.6
15°	635.9	635.9	633.5	636.5	636.5
17.5°	625.6	626.2	623.2	626.8	626.8
20°	614.1	613.4	611.6	614.7	615.3
22.5°	600.1	600.7	598.9	602.5	603.1
25°	586.1	586.1	584.9	588.5	587.9
27.5°	570.9	570.9	569.1	572.1	572.8
30°	552.7	553.3	552.7	555.7	555.1
32.5°	535.7	536.3	536.3	537.5	538.1
35°	516.3	516.9	516.9	519.3	519.3
37.5°	496.8	496.8	497.4	499.3	499.3
40°	476.2	476.8	476.8	478.6	479.2
42.5°	456.1	454.9	455.5	457.4	457.4
45°	433.1	433.7	434.3	434.9	434.9
47.5°	410.0	411.2	411.8	412.4	411.8
50°	386.9	388.1	388.1	387.5	387.5
52.5°	362.0	365.0	364.4	364.4	365.6
55°	338.3	339.5	340.1	340.1	339.5
57.5°	314.6	315.8	314.6	315.2	314.0
60°	289.1	289.7	289.1	289.1	289.1
62.5°	264.2	264.8	263.6	263.6	263.6
65°	238.7	238.7	238.7	237.5	239.9
67.5°	212.0	213.2	213.2	213.8	211.4
70°	187.1	187.7	187.1	186.5	185.2
72.5°	162.2	162.8	163.4	161.0	160.3
75°	136.7	136.7	136.1	135.4	135.4
77.5°	111.8	111.8	111.8	110.5	110.5
80°	87.5	88.1	86.9	86.9	86.2
82.5°	63.8	63.8	63.8	63.2	62.0
85°	41.3	40.1	40.7	39.5	39.5
87.5°	18.8	18.8	18.8	17.6	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)