

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: P291585

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291585
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1875.0 lumens
Efficiency: N/A
Efficacy: 100.8 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

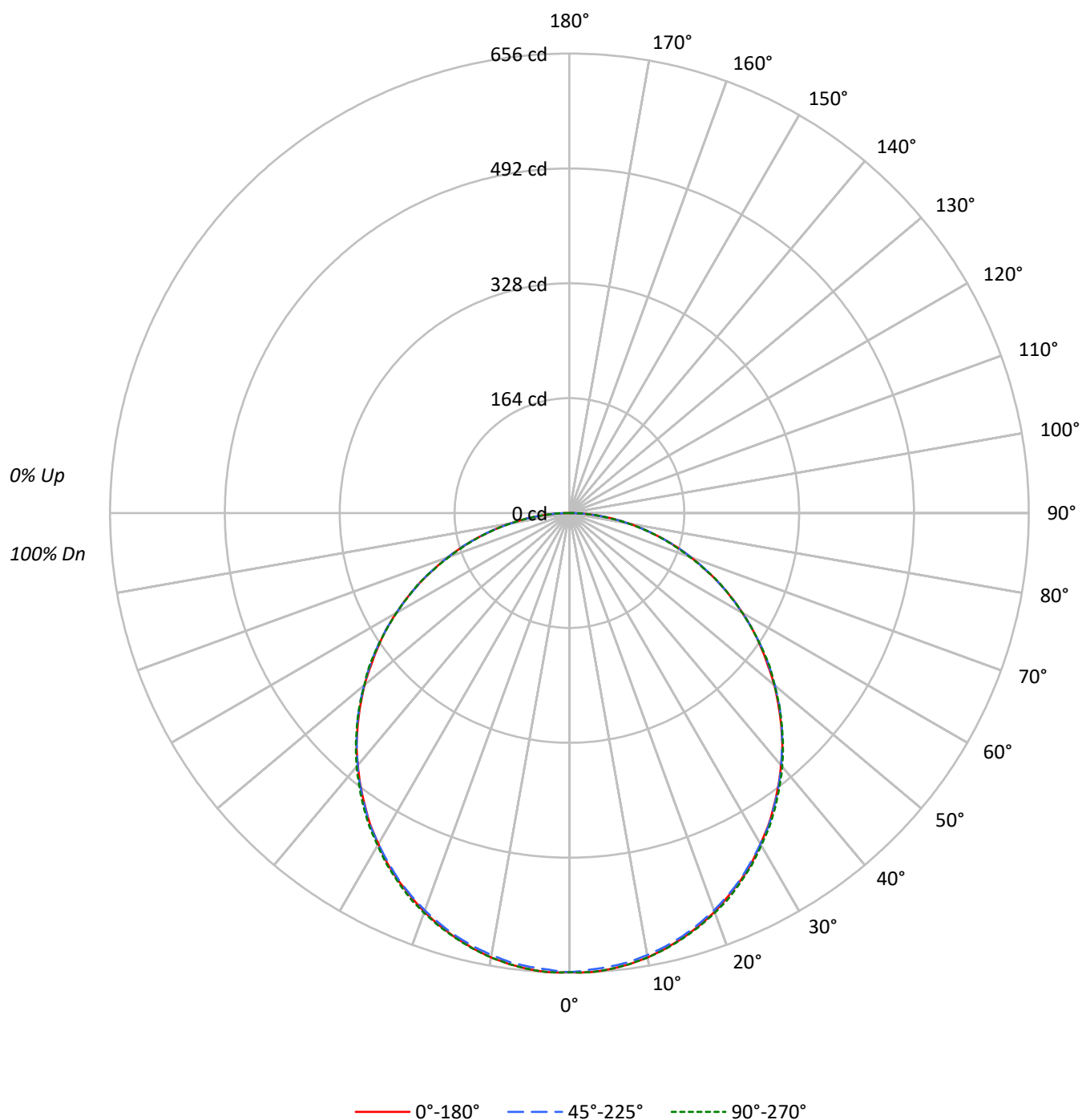
Input Watts (W): 18.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1764	1764	1764
5°	1766	1757	1766
10°	1761	1751	1761
15°	1748	1742	1750
20°	1735	1729	1739
25°	1717	1714	1723
30°	1695	1695	1702
35°	1674	1676	1684
40°	1651	1653	1661
45°	1627	1631	1633
50°	1598	1603	1601
55°	1567	1575	1572
60°	1535	1535	1535
65°	1500	1500	1508
70°	1452	1452	1438
75°	1403	1396	1390
80°	1337	1328	1319
85°	1260	1241	1204



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.0	3.3
10°-20°	177.0	9.4
20°-30°	266.7	14.2
30°-40°	319.6	17.0
40°-50°	330.5	17.6
50°-60°	299.7	16.0
60°-70°	232.9	12.4
70°-80°	142.2	7.6
80°-90°	44.5	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°	505.7	27.0
0°-40°	825.2	44.0
0°-60°	1455.4	77.6
0°-90°	1875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	656	656	656	656	656	
5°	654	653	650	653	654	62
15°	628	628	625	628	628	177
25°	578	578	577	581	580	266
35°	510	510	510	512	512	319
45°	427	428	429	429	429	330
55°	334	335	336	336	335	299
65°	236	236	236	234	237	233
75°	135	135	134	134	134	143
85°	41	40	40	39	39	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	655.7	655.7	655.7	655.7	655.7
2.5°	656.3	655.7	652.7	655.7	656.3
5°	653.9	653.3	650.3	653.3	653.9
7.5°	649.7	649.7	646.7	649.7	649.7
10°	644.3	643.7	640.7	643.7	644.3
12.5°	636.5	636.5	633.5	636.5	637.1
15°	627.6	627.6	625.2	628.2	628.2
17.5°	617.4	618.0	615.0	618.6	618.6
20°	606.0	605.4	603.6	606.6	607.2
22.5°	592.2	592.8	591.0	594.6	595.2
25°	578.4	578.4	577.2	580.8	580.2
27.5°	563.4	563.4	561.6	564.6	565.2
30°	545.4	546.0	545.4	548.4	547.8
32.5°	528.7	529.3	529.3	530.5	531.1
35°	509.5	510.1	510.1	512.5	512.5
37.5°	490.3	490.3	490.9	492.7	492.7
40°	469.9	470.5	470.5	472.3	472.9
42.5°	450.1	448.9	449.5	451.3	451.3
45°	427.4	428.0	428.6	429.2	429.2
47.5°	404.6	405.8	406.4	407.0	406.4
50°	381.8	383.0	383.0	382.4	382.4
52.5°	357.2	360.2	359.6	359.6	360.8
55°	333.9	335.1	335.7	335.7	335.1
57.5°	310.5	311.7	310.5	311.1	309.9
60°	285.3	285.9	285.3	285.3	285.3
62.5°	260.7	261.3	260.1	260.1	260.1
65°	235.6	235.6	235.6	234.4	236.8
67.5°	209.2	210.4	210.4	211.0	208.6
70°	184.6	185.2	184.6	184.0	182.8
72.5°	160.0	160.6	161.2	158.8	158.2
75°	134.9	134.9	134.3	133.7	133.7
77.5°	110.3	110.3	110.3	109.1	109.1
80°	86.3	86.9	85.7	85.7	85.1
82.5°	62.9	62.9	62.9	62.3	61.1
85°	40.8	39.6	40.2	39.0	39.0
87.5°	18.6	18.6	18.6	17.4	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)