

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: P291580

Luminaire Tested: **14GR-LD5-20-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291580
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-LD5-20-FGW080-UNV-L82765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1648.0 lumens
Efficiency: N/A
Efficacy: 101.8 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

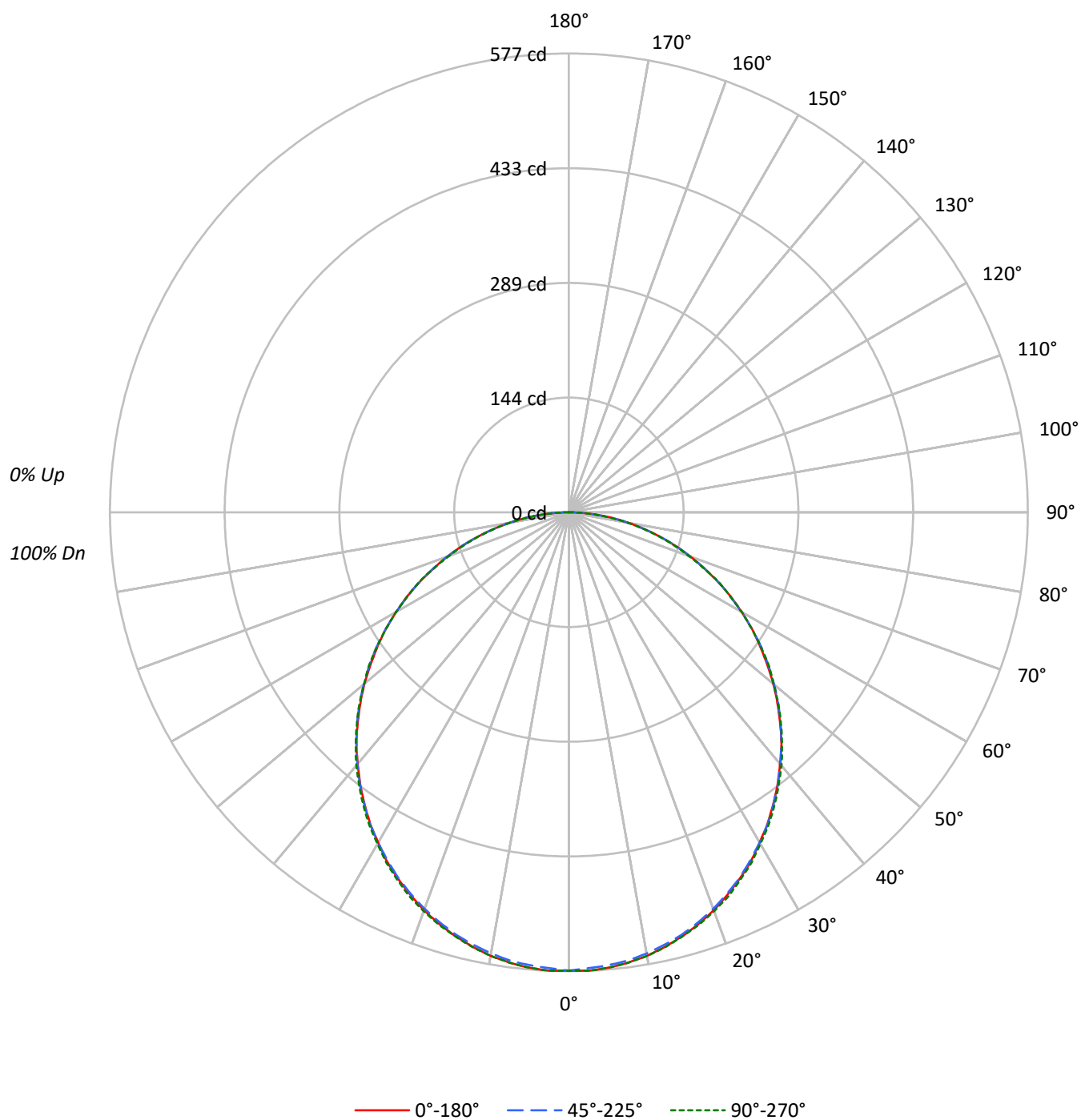
Input Watts (W): 16.182
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1551	1551	1551
5°	1553	1544	1553
10°	1547	1539	1547
15°	1537	1531	1538
20°	1525	1519	1528
25°	1510	1506	1514
30°	1490	1490	1496
35°	1471	1473	1480
40°	1451	1453	1460
45°	1429	1434	1435
50°	1405	1409	1407
55°	1377	1384	1382
60°	1350	1350	1350
65°	1318	1318	1325
70°	1277	1277	1264
75°	1232	1227	1222
80°	1176	1167	1159
85°	1105	1090	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	3.3
10°-20°	155.5	9.4
20°-30°	234.4	14.2
30°-40°	280.9	17.0
40°-50°	290.5	17.6
50°-60°	263.4	16.0
60°-70°	204.7	12.4
70°-80°	125.0	7.6
80°-90°	39.1	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°	444.4	27.0
0°-40°	725.3	44.0
0°-60°	1279.2	77.6
0°-90°	1648.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1648.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	574	572	574	575	55
15°	552	552	550	552	552	156
25°	508	508	507	510	510	234
35°	448	448	448	450	450	280
45°	376	376	377	377	377	290
55°	293	294	295	295	294	262
65°	207	207	207	206	208	205
75°	118	118	118	118	118	125
85°	36	35	35	34	34	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	576.3	576.3	576.3	576.3	576.3
2.5°	576.9	576.3	573.7	576.3	576.9
5°	574.8	574.2	571.6	574.2	574.8
7.5°	571.1	571.1	568.4	571.1	571.1
10°	566.3	565.8	563.2	565.8	566.3
12.5°	559.5	559.5	556.8	559.5	560.0
15°	551.6	551.6	549.5	552.1	552.1
17.5°	542.6	543.1	540.5	543.7	543.7
20°	532.6	532.1	530.5	533.1	533.7
22.5°	520.5	521.0	519.4	522.6	523.1
25°	508.4	508.4	507.3	510.5	510.0
27.5°	495.2	495.2	493.6	496.3	496.8
30°	479.4	479.9	479.4	482.0	481.5
32.5°	464.7	465.2	465.2	466.2	466.8
35°	447.8	448.3	448.3	450.4	450.4
37.5°	430.9	430.9	431.5	433.0	433.0
40°	413.0	413.6	413.6	415.1	415.7
42.5°	395.6	394.6	395.1	396.7	396.7
45°	375.6	376.1	376.7	377.2	377.2
47.5°	355.6	356.7	357.2	357.7	357.2
50°	335.6	336.6	336.6	336.1	336.1
52.5°	314.0	316.6	316.1	316.1	317.1
55°	293.4	294.5	295.0	295.0	294.5
57.5°	272.9	273.9	272.9	273.4	272.4
60°	250.8	251.3	250.8	250.8	250.8
62.5°	229.2	229.7	228.6	228.6	228.6
65°	207.0	207.0	207.0	206.0	208.1
67.5°	183.9	184.9	184.9	185.4	183.3
70°	162.3	162.8	162.3	161.7	160.7
72.5°	140.7	141.2	141.7	139.6	139.1
75°	118.5	118.5	118.0	117.5	117.5
77.5°	96.9	96.9	96.9	95.9	95.9
80°	75.9	76.4	75.3	75.3	74.8
82.5°	55.3	55.3	55.3	54.8	53.7
85°	35.8	34.8	35.3	34.2	34.2
87.5°	16.3	16.3	16.3	15.3	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)