

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: P291581

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291581
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-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1693.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

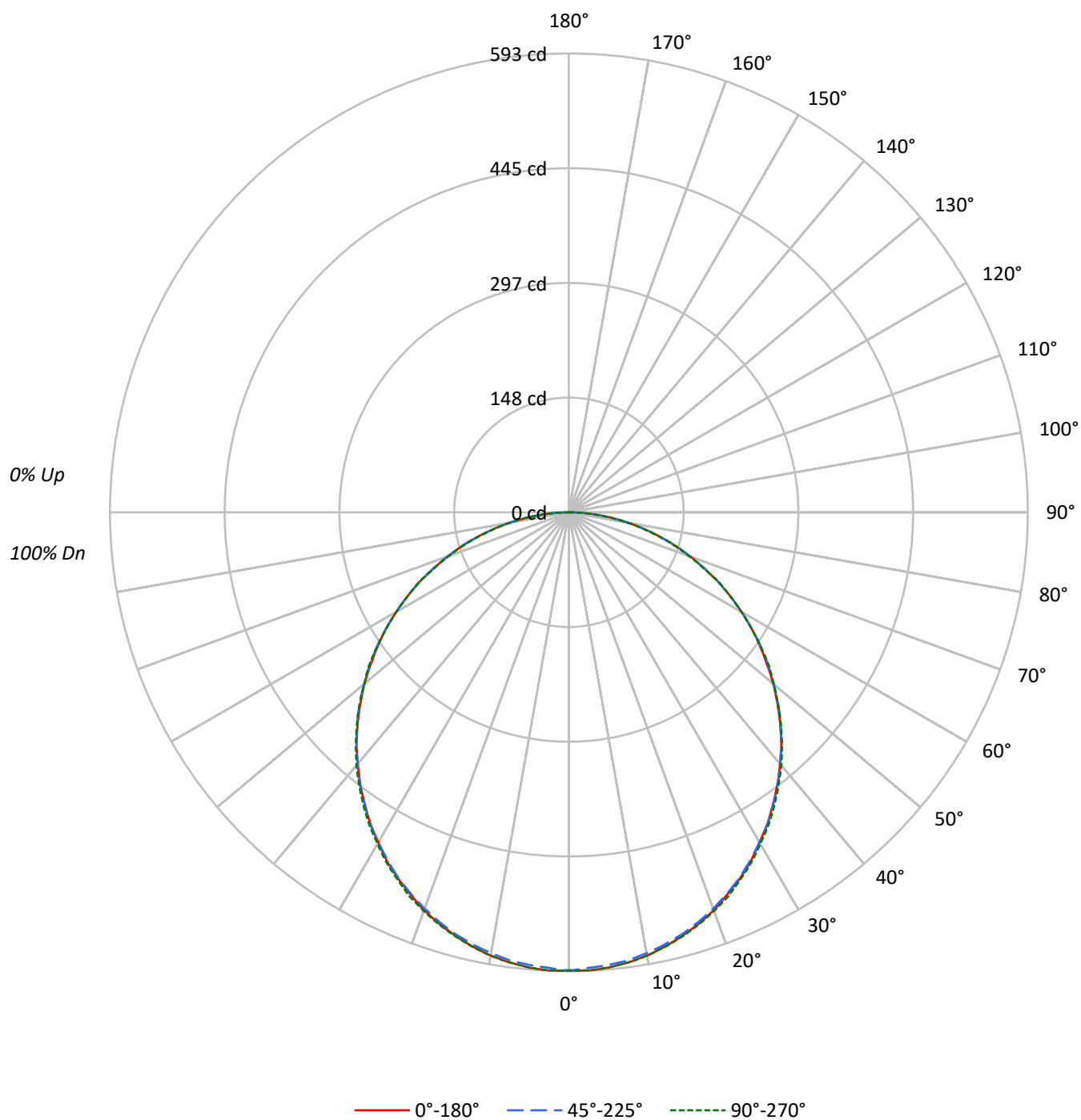
Input Watts (W): 18.228
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1593	1593	1593
5°	1595	1586	1595
10°	1590	1581	1590
15°	1578	1573	1580
20°	1567	1561	1570
25°	1551	1548	1556
30°	1530	1530	1537
35°	1511	1513	1520
40°	1490	1492	1500
45°	1469	1473	1475
50°	1443	1448	1446
55°	1414	1422	1419
60°	1386	1386	1386
65°	1354	1354	1361
70°	1312	1312	1299
75°	1266	1260	1255
80°	1207	1199	1192
85°	1136	1121	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.3
10°-20°	159.8	9.4
20°-30°	240.8	14.2
30°-40°	288.6	17.0
40°-50°	298.4	17.6
50°-60°	270.6	16.0
60°-70°	210.3	12.4
70°-80°	128.4	7.6
80°-90°	40.2	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°	456.6	27.0
0°-40°	745.1	44.0
0°-60°	1314.1	77.6
0°-90°	1693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	592	592	592	592	592	
5°	590	590	587	590	590	56
15°	567	567	564	567	567	160
25°	522	522	521	524	524	241
35°	460	461	461	463	463	288
45°	386	386	387	388	388	298
55°	301	302	303	303	302	270
65°	213	213	213	212	214	210
75°	122	122	121	121	121	129
85°	37	36	36	35	35	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	592.1	592.1	592.1	592.1	592.1
2.5°	592.6	592.1	589.4	592.1	592.6
5°	590.5	589.9	587.2	589.9	590.5
7.5°	586.7	586.7	584.0	586.7	586.7
10°	581.8	581.3	578.5	581.3	581.8
12.5°	574.8	574.8	572.1	574.8	575.3
15°	566.6	566.6	564.5	567.2	567.2
17.5°	557.4	558.0	555.3	558.5	558.5
20°	547.2	546.6	545.0	547.7	548.2
22.5°	534.7	535.2	533.6	536.9	537.4
25°	522.3	522.3	521.2	524.4	523.9
27.5°	508.7	508.7	507.1	509.8	510.4
30°	492.5	493.0	492.5	495.2	494.7
32.5°	477.3	477.9	477.9	479.0	479.5
35°	460.0	460.6	460.6	462.7	462.7
37.5°	442.7	442.7	443.2	444.9	444.9
40°	424.3	424.8	424.8	426.5	427.0
42.5°	406.4	405.4	405.9	407.5	407.5
45°	385.9	386.4	387.0	387.5	387.5
47.5°	365.3	366.4	366.9	367.5	366.9
50°	344.7	345.8	345.8	345.3	345.3
52.5°	322.6	325.3	324.7	324.7	325.8
55°	301.4	302.5	303.1	303.1	302.5
57.5°	280.3	281.4	280.3	280.9	279.8
60°	257.6	258.2	257.6	257.6	257.6
62.5°	235.4	236.0	234.9	234.9	234.9
65°	212.7	212.7	212.7	211.6	213.8
67.5°	188.9	190.0	190.0	190.5	188.3
70°	166.7	167.2	166.7	166.1	165.1
72.5°	144.5	145.0	145.6	143.4	142.9
75°	121.8	121.8	121.2	120.7	120.7
77.5°	99.6	99.6	99.6	98.5	98.5
80°	77.9	78.5	77.4	77.4	76.9
82.5°	56.8	56.8	56.8	56.3	55.2
85°	36.8	35.7	36.3	35.2	35.2
87.5°	16.8	16.8	16.8	15.7	17.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)