

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: P291686

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291686
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1740.0 lumens
Efficiency: N/A
Efficacy: 92.6 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

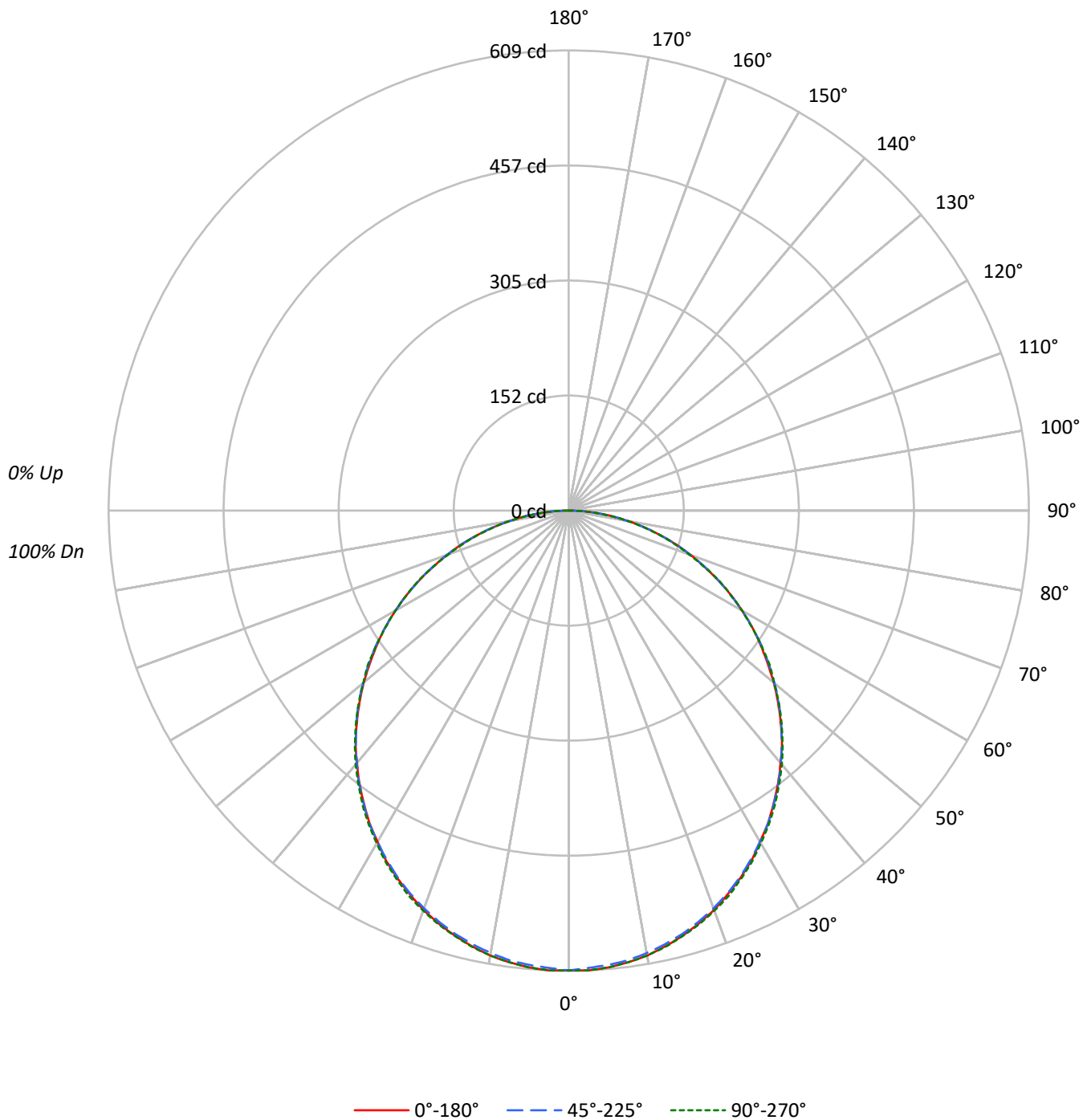
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1637	1637	1637
5°	1639	1630	1639
10°	1634	1625	1634
15°	1623	1616	1624
20°	1610	1604	1614
25°	1594	1590	1599
30°	1573	1573	1580
35°	1553	1555	1562
40°	1532	1534	1542
45°	1509	1513	1516
50°	1483	1488	1486
55°	1453	1461	1459
60°	1425	1425	1425
65°	1392	1392	1399
70°	1348	1348	1334
75°	1302	1295	1289
80°	1241	1232	1224
85°	1167	1152	1118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.5	3.3
10°-20°	164.2	9.4
20°-30°	247.5	14.2
30°-40°	296.6	17.0
40°-50°	306.7	17.6
50°-60°	278.1	16.0
60°-70°	216.1	12.4
70°-80°	132.0	7.6
80°-90°	41.3	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°	469.3	27.0
0°-40°	765.8	44.0
0°-60°	1350.6	77.6
0°-90°	1740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	608	608	608	608	608	
5°	607	606	604	606	607	58
15°	582	582	580	583	583	164
25°	537	537	536	539	538	247
35°	473	473	473	476	476	296
45°	397	397	398	398	398	306
55°	310	311	312	312	311	277
65°	219	219	219	218	220	216
75°	125	125	125	124	124	132
85°	38	37	37	36	36	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.5	608.5	608.5	608.5	608.5
2.5°	609.1	608.5	605.7	608.5	609.1
5°	606.8	606.3	603.5	606.3	606.8
7.5°	603.0	603.0	600.2	603.0	603.0
10°	597.9	597.4	594.6	597.4	597.9
12.5°	590.7	590.7	587.9	590.7	591.3
15°	582.4	582.4	580.1	582.9	582.9
17.5°	572.9	573.5	570.7	574.0	574.0
20°	562.3	561.8	560.1	562.9	563.5
22.5°	549.6	550.1	548.4	551.8	552.3
25°	536.8	536.8	535.6	539.0	538.4
27.5°	522.9	522.9	521.2	524.0	524.5
30°	506.2	506.7	506.2	508.9	508.4
32.5°	490.6	491.1	491.1	492.3	492.8
35°	472.8	473.3	473.3	475.6	475.6
37.5°	455.0	455.0	455.6	457.2	457.2
40°	436.1	436.6	436.6	438.3	438.9
42.5°	417.7	416.6	417.2	418.8	418.8
45°	396.6	397.1	397.7	398.3	398.3
47.5°	375.5	376.6	377.1	377.7	377.1
50°	354.3	355.4	355.4	354.9	354.9
52.5°	331.5	334.3	333.7	333.7	334.8
55°	309.8	310.9	311.5	311.5	310.9
57.5°	288.1	289.2	288.1	288.7	287.6
60°	264.8	265.3	264.8	264.8	264.8
62.5°	242.0	242.5	241.4	241.4	241.4
65°	218.6	218.6	218.6	217.5	219.7
67.5°	194.1	195.2	195.2	195.8	193.6
70°	171.3	171.9	171.3	170.8	169.6
72.5°	148.5	149.1	149.6	147.4	146.8
75°	125.2	125.2	124.6	124.0	124.0
77.5°	102.3	102.3	102.3	101.2	101.2
80°	80.1	80.7	79.5	79.5	79.0
82.5°	58.4	58.4	58.4	57.8	56.7
85°	37.8	36.7	37.3	36.2	36.2
87.5°	17.2	17.2	17.2	16.1	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)