

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: P291582

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291582
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-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1742.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

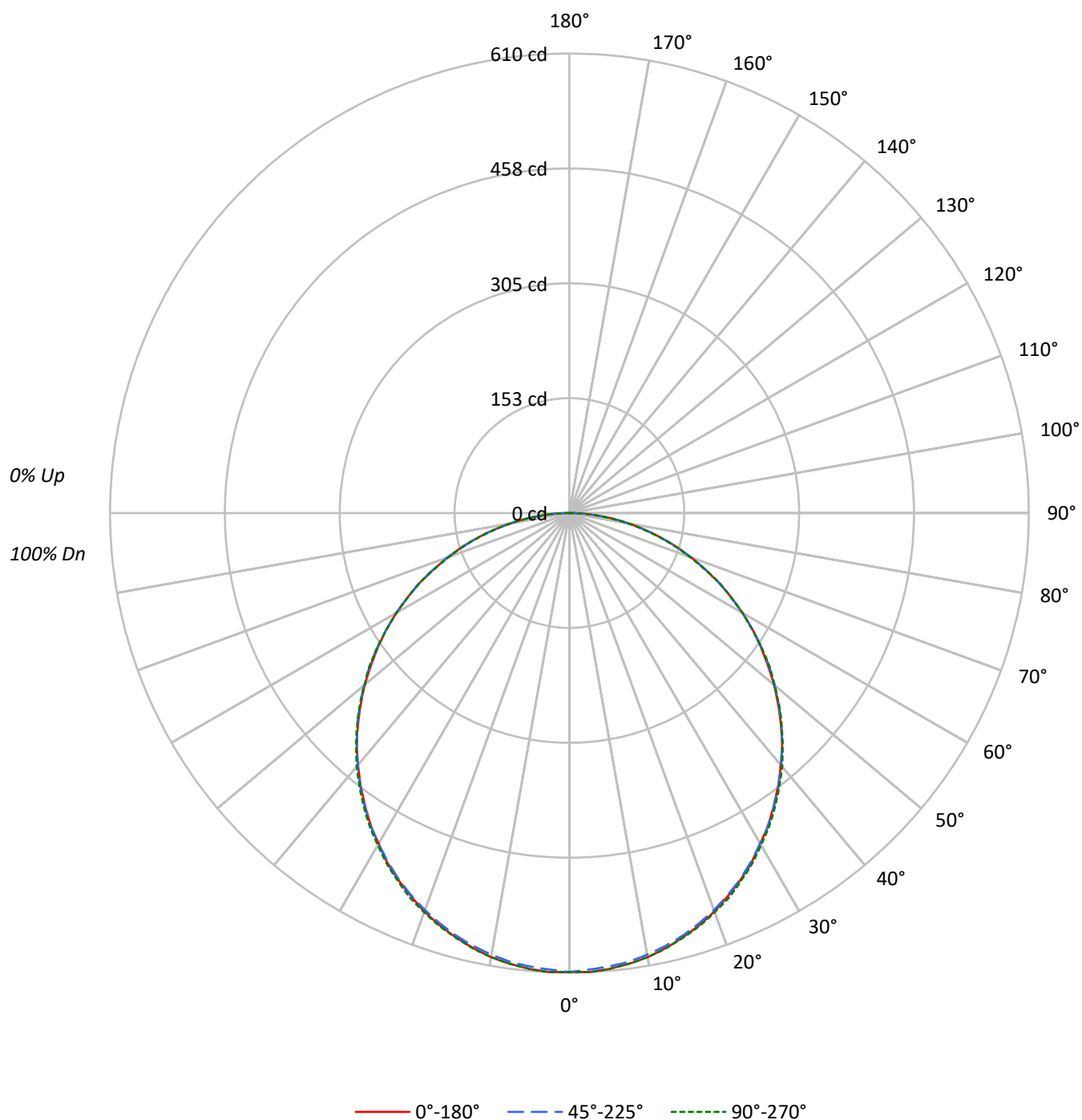
Input Watts (W): 18.135
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291582

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291582

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3000K

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°	1639	1639	1639
5°	1641	1632	1641
10°	1636	1627	1636
15°	1624	1618	1626
20°	1612	1606	1615
25°	1596	1592	1600
30°	1574	1574	1582
35°	1555	1557	1564
40°	1534	1535	1544
45°	1511	1515	1517
50°	1485	1490	1487
55°	1455	1463	1460
60°	1427	1427	1427
65°	1393	1393	1401
70°	1349	1349	1336
75°	1303	1297	1291
80°	1243	1234	1226
85°	1170	1152	1118



TEST NUMBER: P291582

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.6	3.3
10°-20°	164.4	9.4
20°-30°	247.8	14.2
30°-40°	296.9	17.0
40°-50°	307.0	17.6
50°-60°	278.4	16.0
60°-70°	216.4	12.4
70°-80°	132.1	7.6
80°-90°	41.4	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°	469.8	27.0
0°-40°	766.7	44.0
0°-60°	1352.1	77.6
0°-90°	1742.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1742.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	608	607	604	607	608	58
15°	583	583	581	584	584	165
25°	537	537	536	540	539	248
35°	473	474	474	476	476	296
45°	397	398	398	399	399	306
55°	310	311	312	312	311	277
65°	219	219	219	218	220	216
75°	125	125	125	124	124	133
85°	38	37	37	36	36	42
90°	0	0	0	0	0	



TEST NUMBER: P291582

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	609.2	609.2	609.2	609.2	609.2
2.5°	609.8	609.2	606.4	609.2	609.8
5°	607.5	607.0	604.2	607.0	607.5
7.5°	603.6	603.6	600.9	603.6	603.6
10°	598.6	598.1	595.3	598.1	598.6
12.5°	591.4	591.4	588.6	591.4	591.9
15°	583.0	583.0	580.8	583.6	583.6
17.5°	573.6	574.1	571.3	574.7	574.7
20°	563.0	562.4	560.8	563.5	564.1
22.5°	550.2	550.7	549.1	552.4	553.0
25°	537.4	537.4	536.3	539.6	539.0
27.5°	523.5	523.5	521.8	524.6	525.1
30°	506.7	507.3	506.7	509.5	509.0
32.5°	491.2	491.7	491.7	492.8	493.4
35°	473.3	473.9	473.9	476.1	476.1
37.5°	455.5	455.5	456.1	457.7	457.7
40°	436.6	437.1	437.1	438.8	439.4
42.5°	418.2	417.1	417.7	419.3	419.3
45°	397.0	397.6	398.2	398.7	398.7
47.5°	375.9	377.0	377.6	378.1	377.6
50°	354.7	355.8	355.8	355.3	355.3
52.5°	331.9	334.7	334.1	334.1	335.2
55°	310.2	311.3	311.8	311.8	311.3
57.5°	288.5	289.6	288.5	289.0	287.9
60°	265.1	265.6	265.1	265.1	265.1
62.5°	242.2	242.8	241.7	241.7	241.7
65°	218.8	218.8	218.8	217.7	220.0
67.5°	194.3	195.5	195.5	196.0	193.8
70°	171.5	172.1	171.5	171.0	169.8
72.5°	148.7	149.2	149.8	147.6	147.0
75°	125.3	125.3	124.7	124.2	124.2
77.5°	102.5	102.5	102.5	101.3	101.3
80°	80.2	80.7	79.6	79.6	79.1
82.5°	58.5	58.5	58.5	57.9	56.8
85°	37.9	36.8	37.3	36.2	36.2
87.5°	17.3	17.3	17.3	16.1	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)