

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: P291687

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291687
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1751.0 lumens
Efficiency: N/A
Efficacy: 91.8 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

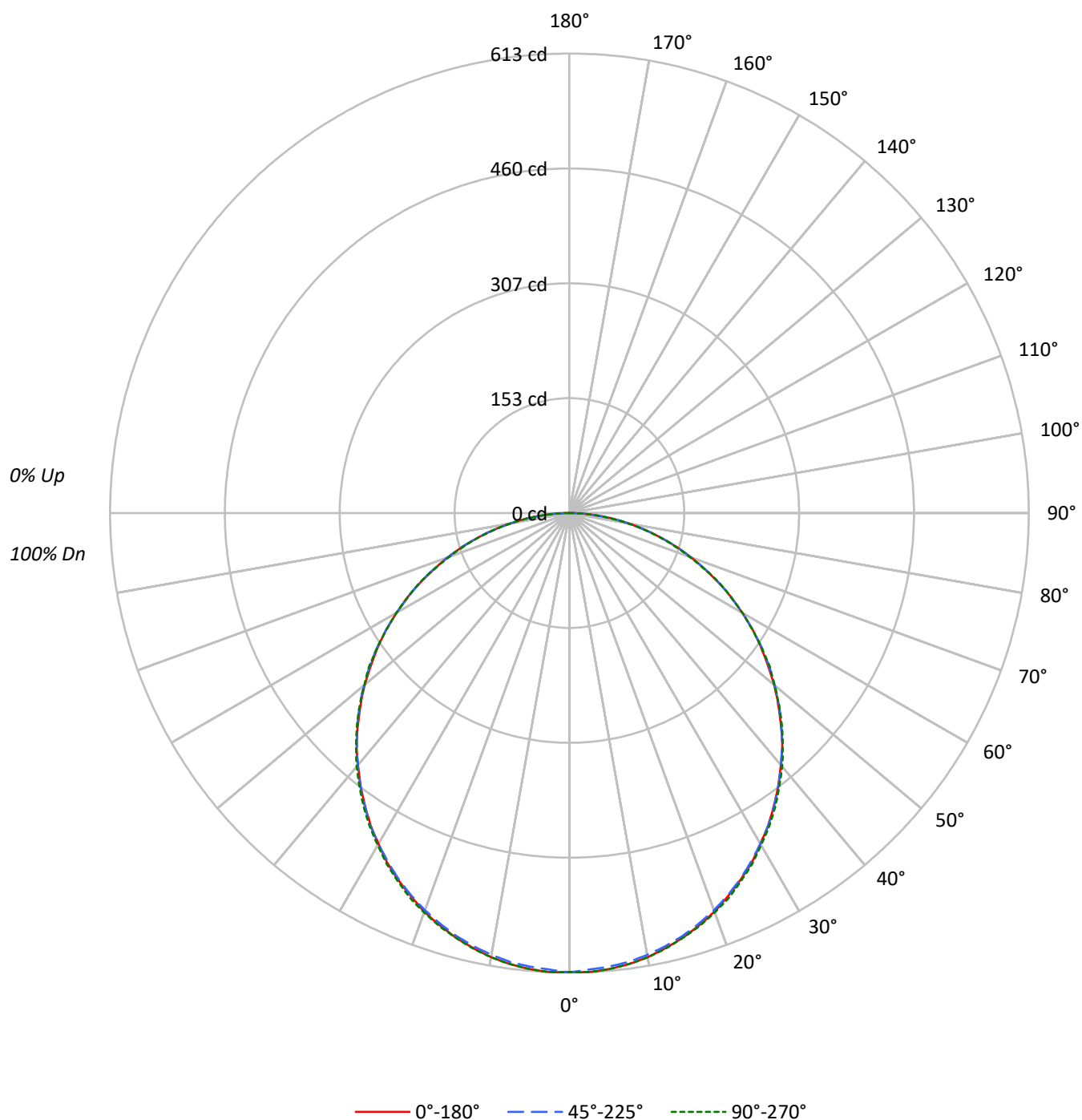
Input Watts (W): 19.065
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291687

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P291687

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0			
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69			
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58			
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1648	1648	1648
5°	1650	1640	1650
10°	1644	1635	1644
15°	1633	1626	1634
20°	1621	1614	1624
25°	1604	1600	1609
30°	1583	1583	1590
35°	1563	1565	1572
40°	1541	1544	1551
45°	1519	1523	1525
50°	1493	1497	1495
55°	1463	1471	1468
60°	1434	1434	1434
65°	1401	1401	1408
70°	1356	1356	1343
75°	1309	1304	1298
80°	1249	1240	1232
85°	1176	1158	1124



TEST NUMBER: P291687

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	3.3
10°-20°	165.3	9.4
20°-30°	249.1	14.2
30°-40°	298.5	17.0
40°-50°	308.6	17.6
50°-60°	279.8	16.0
60°-70°	217.5	12.4
70°-80°	132.8	7.6
80°-90°	41.6	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°	472.2	27.0
0°-40°	770.7	44.0
0°-60°	1359.1	77.6
0°-90°	1751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	612	612	612	612	612	
5°	611	610	607	610	611	58
15°	586	586	584	587	587	165
25°	540	540	539	542	542	249
35°	476	476	476	479	479	298
45°	399	400	400	401	401	308
55°	312	313	314	314	313	279
65°	220	220	220	219	221	217
75°	126	126	125	125	125	133
85°	38	37	38	36	36	42
90°	0	0	0	0	0	



TEST NUMBER: P291687

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	612.4	612.4	612.4	612.4	612.4
2.5°	612.9	612.4	609.6	612.4	612.9
5°	610.7	610.1	607.3	610.1	610.7
7.5°	606.8	606.8	604.0	606.8	606.8
10°	601.7	601.2	598.4	601.2	601.7
12.5°	594.4	594.4	591.6	594.4	595.0
15°	586.1	586.1	583.8	586.6	586.6
17.5°	576.5	577.1	574.3	577.7	577.7
20°	565.9	565.3	563.7	566.5	567.0
22.5°	553.0	553.6	551.9	555.3	555.8
25°	540.2	540.2	539.0	542.4	541.8
27.5°	526.2	526.2	524.5	527.3	527.8
30°	509.4	509.9	509.4	512.2	511.6
32.5°	493.7	494.3	494.3	495.4	495.9
35°	475.8	476.3	476.3	478.6	478.6
37.5°	457.9	457.9	458.4	460.1	460.1
40°	438.8	439.4	439.4	441.1	441.6
42.5°	420.4	419.2	419.8	421.5	421.5
45°	399.1	399.7	400.2	400.8	400.8
47.5°	377.8	378.9	379.5	380.1	379.5
50°	356.6	357.7	357.7	357.1	357.1
52.5°	333.6	336.4	335.8	335.8	337.0
55°	311.8	312.9	313.5	313.5	312.9
57.5°	289.9	291.1	289.9	290.5	289.4
60°	266.4	267.0	266.4	266.4	266.4
62.5°	243.5	244.0	242.9	242.9	242.9
65°	220.0	220.0	220.0	218.9	221.1
67.5°	195.4	196.5	196.5	197.0	194.8
70°	172.4	173.0	172.4	171.8	170.7
72.5°	149.5	150.0	150.6	148.3	147.8
75°	125.9	125.9	125.4	124.8	124.8
77.5°	103.0	103.0	103.0	101.9	101.9
80°	80.6	81.2	80.0	80.0	79.5
82.5°	58.8	58.8	58.8	58.2	57.1
85°	38.1	36.9	37.5	36.4	36.4
87.5°	17.4	17.4	17.4	16.2	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)