

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: P291685

Luminaire Tested: **14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291685
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1732.0 lumens
Efficiency: N/A
Efficacy: 92.2 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

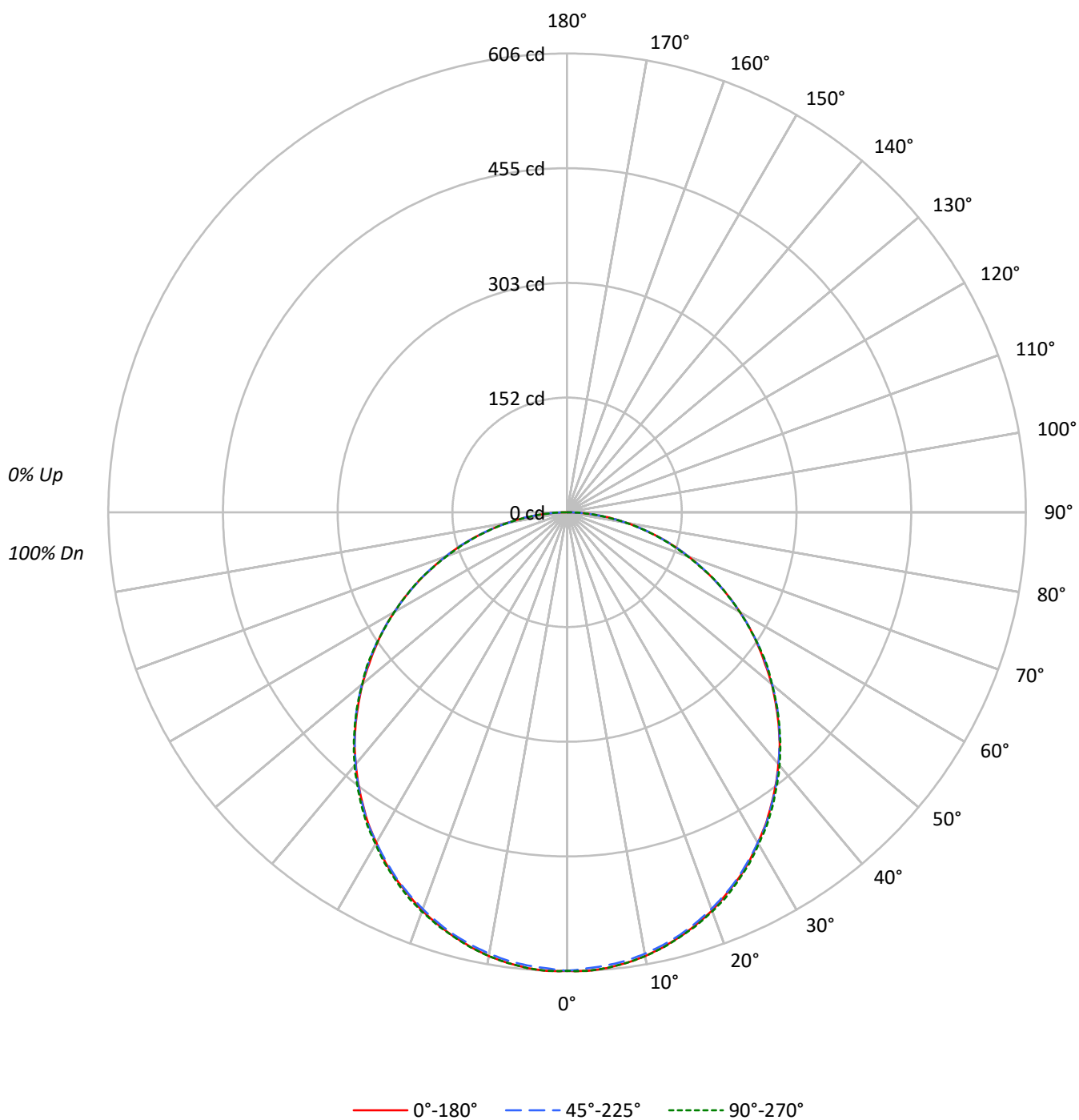
Input Watts (W): 18.786
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291685

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P291685

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K

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°	1630	1630	1630
5°	1632	1623	1632
10°	1626	1617	1626
15°	1615	1609	1616
20°	1603	1597	1606
25°	1586	1583	1591
30°	1565	1565	1573
35°	1546	1548	1555
40°	1525	1527	1534
45°	1502	1507	1509
50°	1477	1481	1479
55°	1447	1455	1452
60°	1418	1418	1418
65°	1386	1386	1393
70°	1341	1341	1329
75°	1295	1289	1284
80°	1235	1227	1218
85°	1161	1145	1112



TEST NUMBER: P291685

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.3
10°-20°	163.5	9.4
20°-30°	246.3	14.2
30°-40°	295.2	17.0
40°-50°	305.3	17.6
50°-60°	276.8	16.0
60°-70°	215.1	12.4
70°-80°	131.4	7.6
80°-90°	41.1	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°	467.1	27.0
0°-40°	762.3	44.0
0°-60°	1344.4	77.6
0°-90°	1732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	606	606	606	606	606	
5°	604	604	601	604	604	57
15°	580	580	578	580	580	164
25°	534	534	533	536	536	246
35°	471	471	471	473	473	295
45°	395	395	396	396	396	305
55°	308	310	310	310	310	276
65°	218	218	218	216	219	215
75°	125	125	124	124	124	132
85°	38	36	37	36	36	42
90°	0	0	0	0	0	



TEST NUMBER: P291685

CATALOG NUMBER: 14GR-LD5-24-FGW080-UNV-L92765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	605.7	605.7	605.7	605.7	605.7
2.5°	606.3	605.7	602.9	605.7	606.3
5°	604.1	603.5	600.7	603.5	604.1
7.5°	600.2	600.2	597.4	600.2	600.2
10°	595.2	594.6	591.9	594.6	595.2
12.5°	588.0	588.0	585.2	588.0	588.6
15°	579.7	579.7	577.5	580.2	580.2
17.5°	570.3	570.8	568.1	571.4	571.4
20°	559.8	559.2	557.5	560.3	560.9
22.5°	547.0	547.6	545.9	549.2	549.8
25°	534.3	534.3	533.2	536.5	536.0
27.5°	520.4	520.4	518.8	521.6	522.1
30°	503.8	504.4	503.8	506.6	506.1
32.5°	488.3	488.9	488.9	490.0	490.6
35°	470.6	471.2	471.2	473.4	473.4
37.5°	452.9	452.9	453.5	455.1	455.1
40°	434.1	434.6	434.6	436.3	436.8
42.5°	415.8	414.7	415.3	416.9	416.9
45°	394.8	395.3	395.9	396.4	396.4
47.5°	373.7	374.8	375.4	375.9	375.4
50°	352.7	353.8	353.8	353.2	353.2
52.5°	330.0	332.8	332.2	332.2	333.3
55°	308.4	309.5	310.1	310.1	309.5
57.5°	286.8	287.9	286.8	287.4	286.2
60°	263.5	264.1	263.5	263.5	263.5
62.5°	240.8	241.4	240.3	240.3	240.3
65°	217.6	217.6	217.6	216.5	218.7
67.5°	193.2	194.3	194.3	194.9	192.7
70°	170.5	171.1	170.5	170.0	168.9
72.5°	147.8	148.4	148.9	146.7	146.2
75°	124.6	124.6	124.0	123.5	123.5
77.5°	101.9	101.9	101.9	100.8	100.8
80°	79.7	80.3	79.2	79.2	78.6
82.5°	58.1	58.1	58.1	57.6	56.5
85°	37.6	36.5	37.1	36.0	36.0
87.5°	17.2	17.2	17.2	16.1	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)