

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: P291556

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291556
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-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2651.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

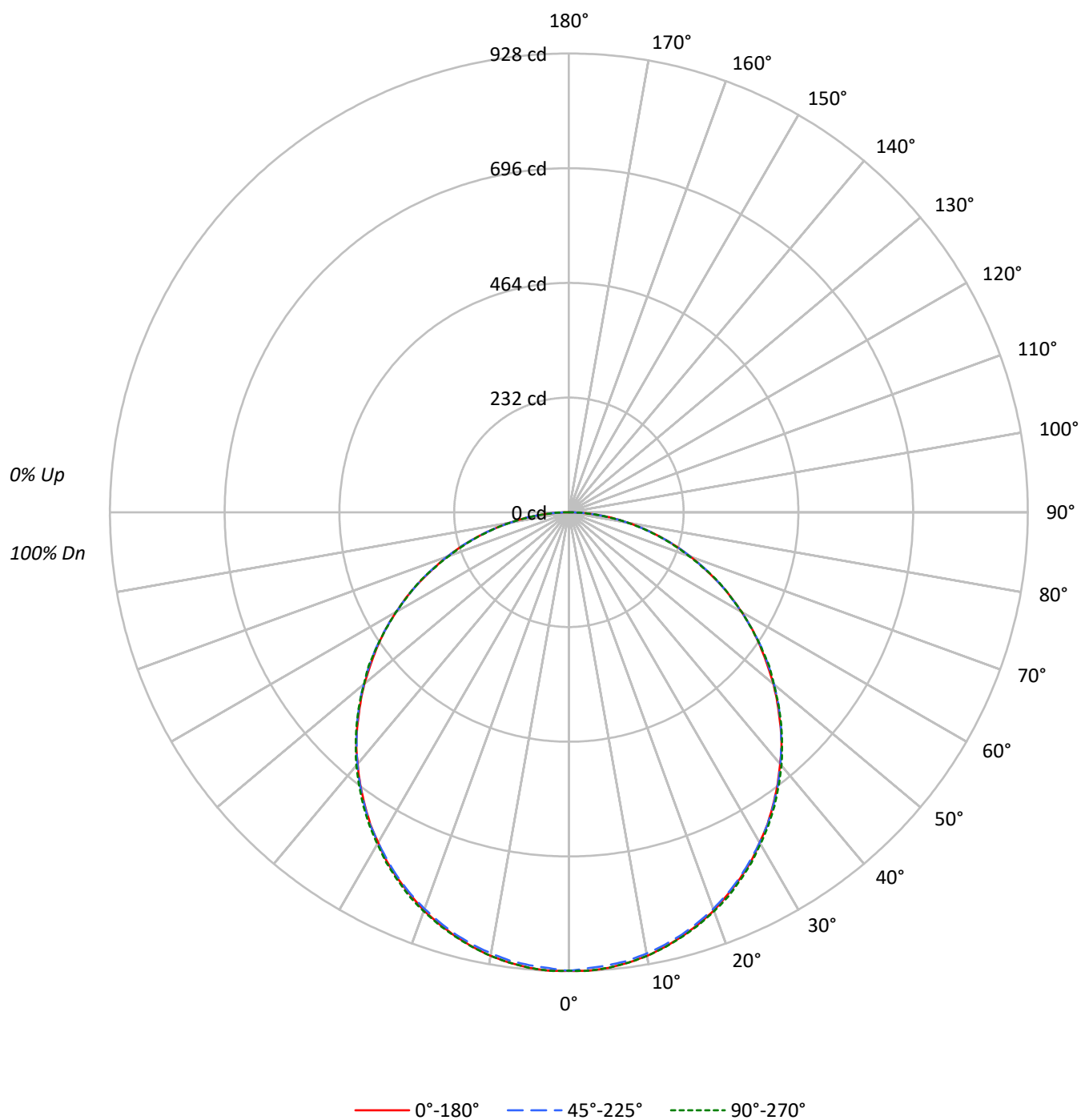
Input Watts (W): 26.97
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291556

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291556

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K

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°	2495	2495	2495
5°	2498	2484	2498
10°	2489	2475	2489
15°	2472	2462	2474
20°	2454	2444	2458
25°	2428	2423	2436
30°	2396	2396	2407
35°	2366	2369	2380
40°	2334	2337	2349
45°	2299	2306	2309
50°	2260	2267	2264
55°	2214	2227	2222
60°	2171	2171	2171
65°	2120	2120	2131
70°	2054	2054	2034
75°	1983	1973	1965
80°	1891	1878	1864
85°	1778	1754	1701



TEST NUMBER: P291556

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	250.2	9.4
20°-30°	377.1	14.2
30°-40°	451.9	17.0
40°-50°	467.2	17.6
50°-60°	423.7	16.0
60°-70°	329.3	12.4
70°-80°	201.1	7.6
80°-90°	63.0	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°	714.9	27.0
0°-40°	1166.8	44.0
0°-60°	2057.7	77.6
0°-90°	2651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2651.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	925	924	920	924	925	88
15°	887	887	884	888	888	250
25°	818	818	816	821	820	377
35°	720	721	721	725	725	451
45°	604	605	606	607	607	466
55°	472	474	475	475	474	422
65°	333	333	333	331	335	329
75°	191	191	190	189	189	202
85°	58	56	57	55	55	64
90°	0	0	0	0	0	



TEST NUMBER: P291556

CATALOG NUMBER: 14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.1	927.1	927.1	927.1	927.1
2.5°	928.0	927.1	922.9	927.1	928.0
5°	924.6	923.7	919.5	923.7	924.6
7.5°	918.6	918.6	914.4	918.6	918.6
10°	911.0	910.2	905.9	910.2	911.0
12.5°	900.0	900.0	895.8	900.0	900.8
15°	887.3	887.3	883.9	888.1	888.1
17.5°	872.9	873.7	869.5	874.6	874.6
20°	856.8	855.9	853.4	857.6	858.5
22.5°	837.3	838.1	835.6	840.7	841.5
25°	817.8	817.8	816.1	821.2	820.3
27.5°	796.6	796.6	794.1	798.3	799.1
30°	771.2	772.0	771.2	775.4	774.6
32.5°	747.4	748.3	748.3	750.0	750.8
35°	720.3	721.2	721.2	724.6	724.6
37.5°	693.2	693.2	694.1	696.6	696.6
40°	664.4	665.2	665.2	667.8	668.6
42.5°	636.4	634.7	635.6	638.1	638.1
45°	604.2	605.1	605.9	606.8	606.8
47.5°	572.0	573.7	574.6	575.4	574.6
50°	539.8	541.5	541.5	540.7	540.7
52.5°	505.1	509.3	508.5	508.5	510.2
55°	472.0	473.7	474.6	474.6	473.7
57.5°	439.0	440.7	439.0	439.8	438.1
60°	403.4	404.2	403.4	403.4	403.4
62.5°	368.6	369.5	367.8	367.8	367.8
65°	333.0	333.0	333.0	331.4	334.7
67.5°	295.8	297.5	297.5	298.3	294.9
70°	261.0	261.9	261.0	260.2	258.5
72.5°	226.3	227.1	228.0	224.6	223.7
75°	190.7	190.7	189.8	189.0	189.0
77.5°	155.9	155.9	155.9	154.2	154.2
80°	122.0	122.9	121.2	121.2	120.3
82.5°	89.0	89.0	89.0	88.1	86.4
85°	57.6	55.9	56.8	55.1	55.1
87.5°	26.3	26.3	26.3	24.6	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)