

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: P291557

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291557
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-LD5-36-FGW080-UNV-L83050-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: 2642.0 lumens
Efficiency: N/A
Efficacy: 90.5 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

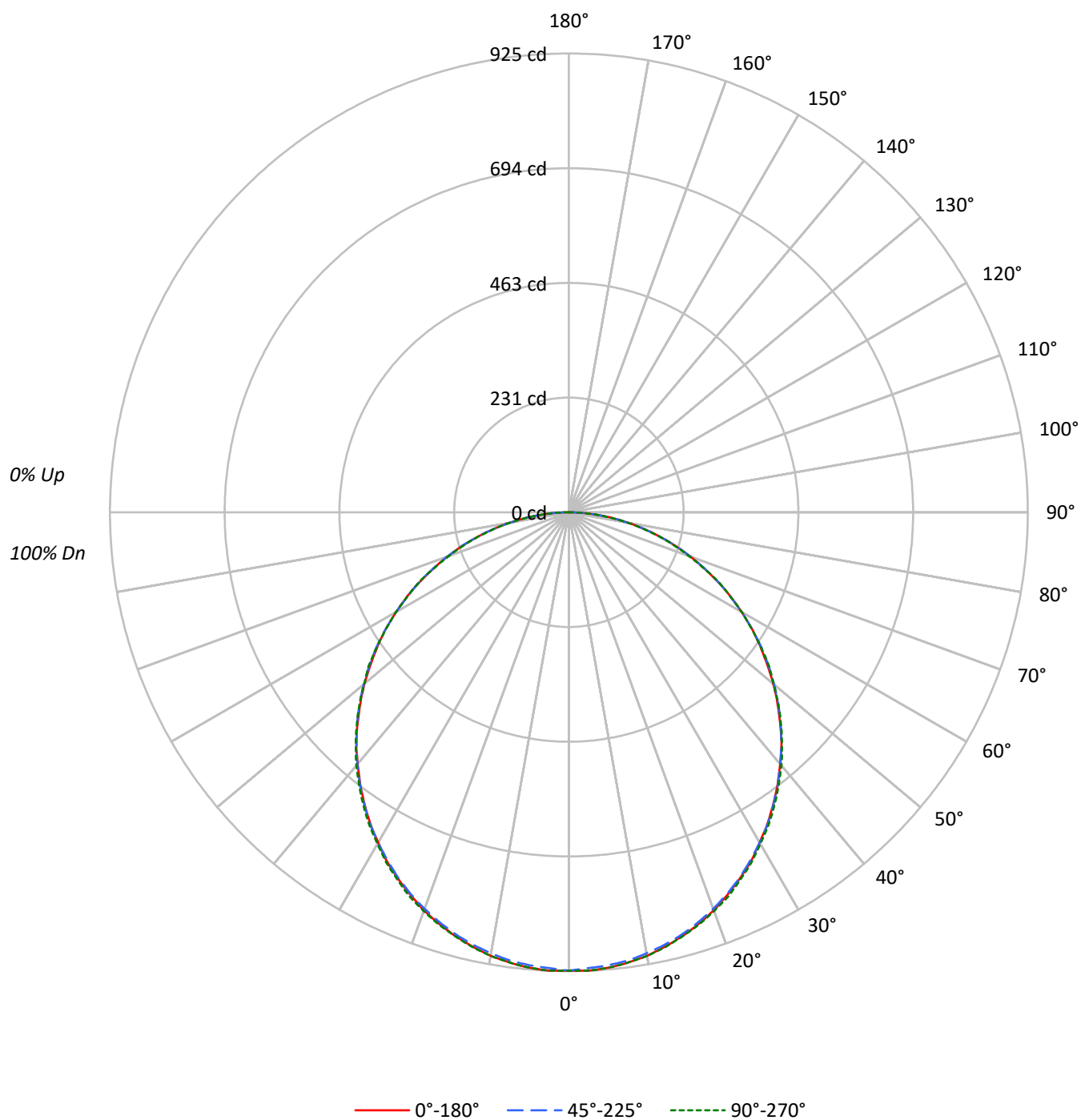
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291557

CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P291557

CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K

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°	2486	2486	2486
5°	2489	2475	2489
10°	2481	2467	2481
15°	2464	2454	2466
20°	2445	2436	2450
25°	2420	2415	2427
30°	2388	2388	2399
35°	2358	2361	2372
40°	2326	2329	2341
45°	2292	2298	2301
50°	2252	2259	2256
55°	2207	2219	2215
60°	2164	2164	2164
65°	2113	2113	2124
70°	2046	2046	2027
75°	1975	1967	1958
80°	1884	1872	1858
85°	1772	1748	1695



TEST NUMBER: P291557

CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.4	3.3
10°-20°	249.4	9.4
20°-30°	375.8	14.2
30°-40°	450.3	17.0
40°-50°	465.7	17.6
50°-60°	422.2	16.0
60°-70°	328.1	12.4
70°-80°	200.4	7.6
80°-90°	62.7	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°	712.5	27.0
0°-40°	1162.8	44.0
0°-60°	2050.7	77.6
0°-90°	2642.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2642.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	921	921	916	921	921	88
15°	884	884	881	885	885	250
25°	815	815	813	818	818	375
35°	718	719	719	722	722	449
45°	602	603	604	605	605	465
55°	470	472	473	473	472	421
65°	332	332	332	330	334	328
75°	190	190	189	188	188	201
85°	57	56	57	55	55	63
90°	0	0	0	0	0	



TEST NUMBER: P291557

CATALOG NUMBER: 14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	924.0	924.0	924.0	924.0	924.0
2.5°	924.8	924.0	919.7	924.0	924.8
5°	921.4	920.6	916.4	920.6	921.4
7.5°	915.5	915.5	911.3	915.5	915.5
10°	907.9	907.1	902.8	907.1	907.9
12.5°	896.9	896.9	892.7	896.9	897.8
15°	884.3	884.3	880.9	885.1	885.1
17.5°	869.9	870.8	866.5	871.6	871.6
20°	853.9	853.0	850.5	854.7	855.5
22.5°	834.4	835.3	832.7	837.8	838.7
25°	815.0	815.0	813.3	818.4	817.5
27.5°	793.9	793.9	791.4	795.6	796.4
30°	768.6	769.4	768.6	772.8	771.9
32.5°	744.9	745.8	745.8	747.4	748.3
35°	717.9	718.7	718.7	722.1	722.1
37.5°	690.9	690.9	691.7	694.2	694.2
40°	662.1	663.0	663.0	665.5	666.4
42.5°	634.3	632.6	633.4	636.0	636.0
45°	602.2	603.0	603.9	604.7	604.7
47.5°	570.1	571.8	572.6	573.5	572.6
50°	538.0	539.7	539.7	538.8	538.8
52.5°	503.4	507.6	506.7	506.7	508.4
55°	470.4	472.1	473.0	473.0	472.1
57.5°	437.5	439.2	437.5	438.3	436.6
60°	402.0	402.9	402.0	402.0	402.0
62.5°	367.4	368.2	366.5	366.5	366.5
65°	331.9	331.9	331.9	330.2	333.6
67.5°	294.8	296.4	296.4	297.3	293.9
70°	260.1	261.0	260.1	259.3	257.6
72.5°	225.5	226.3	227.2	223.8	223.0
75°	190.0	190.0	189.2	188.3	188.3
77.5°	155.4	155.4	155.4	153.7	153.7
80°	121.6	122.5	120.8	120.8	119.9
82.5°	88.7	88.7	88.7	87.8	86.1
85°	57.4	55.7	56.6	54.9	54.9
87.5°	26.2	26.2	26.2	24.5	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)