

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: P291729

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291729
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-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3085.0 lumens
Efficiency: N/A
Efficacy: 82.5 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

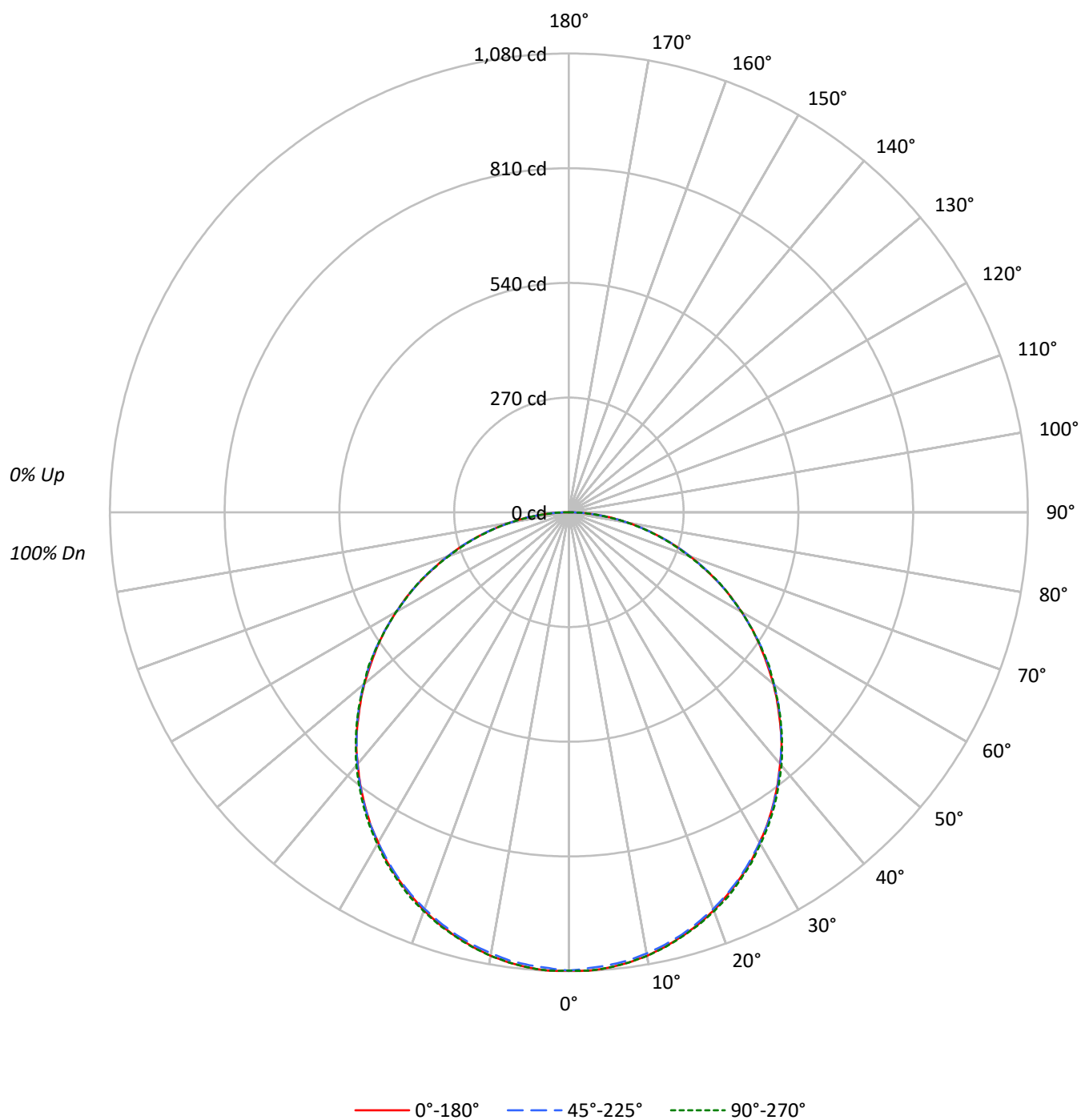
Input Watts (W): 37.386
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291729

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P291729

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K

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°	2903	2903	2903
5°	2906	2890	2906
10°	2897	2881	2897
15°	2876	2866	2879
20°	2855	2844	2861
25°	2826	2820	2834
30°	2788	2788	2801
35°	2754	2757	2770
40°	2716	2720	2733
45°	2676	2683	2687
50°	2630	2638	2634
55°	2577	2591	2586
60°	2526	2526	2526
65°	2468	2468	2480
70°	2389	2389	2367
75°	2307	2297	2286
80°	2201	2185	2170
85°	2072	2041	1979



TEST NUMBER: P291729

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.0	3.3
10°-20°	291.2	9.4
20°-30°	438.8	14.2
30°-40°	525.8	17.0
40°-50°	543.7	17.6
50°-60°	493.0	16.0
60°-70°	383.2	12.4
70°-80°	234.0	7.6
80°-90°	73.2	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°	832.0	27.0
0°-40°	1357.8	44.0
0°-60°	2394.6	77.6
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1079	1079	1079	1079	1079	
5°	1076	1075	1070	1075	1076	102
15°	1032	1032	1029	1034	1034	291
25°	952	952	950	956	955	438
35°	838	839	839	843	843	525
45°	703	704	705	706	706	543
55°	549	551	552	552	551	491
65°	388	388	388	386	390	383
75°	222	222	221	220	220	235
85°	67	65	66	64	64	74
90°	0	0	0	0	0	



TEST NUMBER: P291729

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1078.9	1078.9	1078.9	1078.9	1078.9
2.5°	1079.9	1078.9	1074.0	1078.9	1079.9
5°	1075.9	1074.9	1070.0	1074.9	1075.9
7.5°	1069.0	1069.0	1064.1	1069.0	1069.0
10°	1060.1	1059.2	1054.2	1059.2	1060.1
12.5°	1047.3	1047.3	1042.4	1047.3	1048.3
15°	1032.5	1032.5	1028.6	1033.5	1033.5
17.5°	1015.8	1016.8	1011.8	1017.7	1017.7
20°	997.0	996.0	993.1	998.0	999.0
22.5°	974.4	975.3	972.4	978.3	979.3
25°	951.7	951.7	949.7	955.6	954.6
27.5°	927.0	927.0	924.1	929.0	930.0
30°	897.4	898.4	897.4	902.4	901.4
32.5°	869.8	870.8	870.8	872.8	873.8
35°	838.3	839.2	839.2	843.2	843.2
37.5°	806.7	806.7	807.7	810.6	810.6
40°	773.2	774.2	774.2	777.1	778.1
42.5°	740.6	738.7	739.6	742.6	742.6
45°	703.1	704.1	705.1	706.1	706.1
47.5°	665.7	667.6	668.6	669.6	668.6
50°	628.2	630.2	630.2	629.2	629.2
52.5°	587.8	592.7	591.7	591.7	593.7
55°	549.3	551.3	552.3	552.3	551.3
57.5°	510.8	512.8	510.8	511.8	509.9
60°	469.4	470.4	469.4	469.4	469.4
62.5°	429.0	430.0	428.0	428.0	428.0
65°	387.6	387.6	387.6	385.6	389.5
67.5°	344.2	346.2	346.2	347.1	343.2
70°	303.7	304.7	303.7	302.8	300.8
72.5°	263.3	264.3	265.3	261.3	260.4
75°	221.9	221.9	220.9	219.9	219.9
77.5°	181.5	181.5	181.5	179.5	179.5
80°	142.0	143.0	141.0	141.0	140.0
82.5°	103.5	103.5	103.5	102.6	100.6
85°	67.1	65.1	66.1	64.1	64.1
87.5°	30.6	30.6	30.6	28.6	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)