

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: P291629

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291629
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-L82765-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3331.0 lumens
Efficiency: N/A
Efficacy: 90.0 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

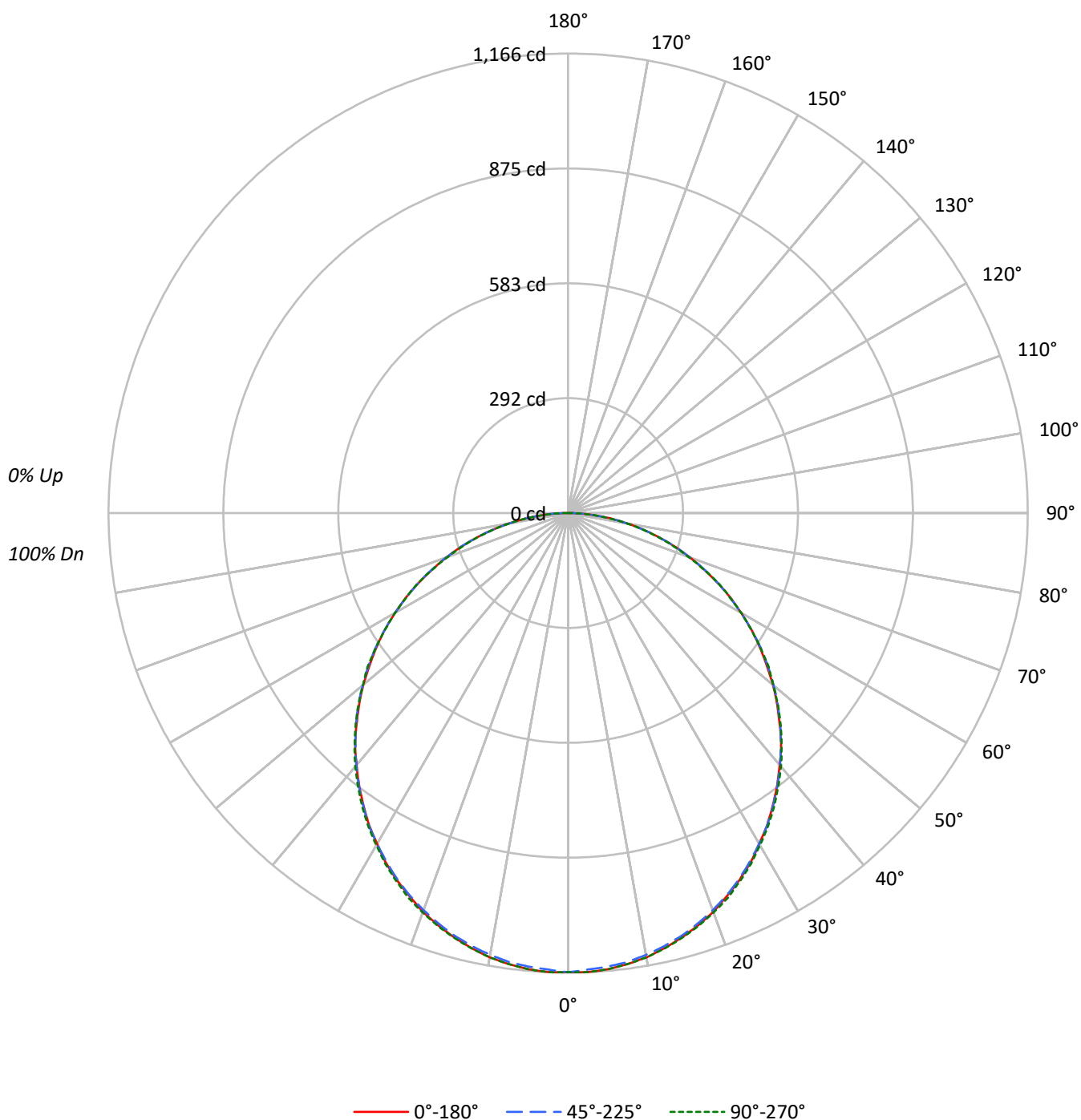
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291629

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot



TEST NUMBER: P291629

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K

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	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°	3135	3135	3135
5°	3138	3121	3138
10°	3128	3110	3128
15°	3106	3094	3109
20°	3083	3071	3089
25°	3051	3045	3060
30°	3011	3011	3024
35°	2973	2977	2991
40°	2933	2936	2951
45°	2889	2897	2901
50°	2840	2848	2844
55°	2783	2798	2792
60°	2728	2728	2728
65°	2665	2665	2678
70°	2581	2581	2555
75°	2491	2480	2469
80°	2376	2360	2343
85°	2235	2201	2137



TEST NUMBER: P291629

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.2	3.3
10°-20°	314.4	9.4
20°-30°	473.8	14.2
30°-40°	567.8	17.0
40°-50°	587.1	17.6
50°-60°	532.3	16.0
60°-70°	413.7	12.4
70°-80°	252.7	7.6
80°-90°	79.1	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°	898.3	27.0
0°-40°	1466.1	44.0
0°-60°	2585.5	77.6
0°-90°	3331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1165	1165	1165	1165	1165	
5°	1162	1161	1155	1161	1162	110
15°	1115	1115	1111	1116	1116	315
25°	1028	1028	1025	1032	1031	473
35°	905	906	906	910	910	566
45°	759	760	761	762	762	586
55°	593	595	596	596	595	531
65°	418	418	418	416	421	413
75°	240	240	238	238	238	253
85°	72	70	71	69	69	80
90°	0	0	0	0	0	



TEST NUMBER: P291629

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1164.9	1164.9	1164.9	1164.9	1164.9
2.5°	1166.0	1164.9	1159.6	1164.9	1166.0
5°	1161.7	1160.7	1155.3	1160.7	1161.7
7.5°	1154.3	1154.3	1148.9	1154.3	1154.3
10°	1144.7	1143.6	1138.3	1143.6	1144.7
12.5°	1130.8	1130.8	1125.5	1130.8	1131.9
15°	1114.9	1114.9	1110.6	1115.9	1115.9
17.5°	1096.8	1097.8	1092.5	1098.9	1098.9
20°	1076.5	1075.5	1072.3	1077.6	1078.7
22.5°	1052.0	1053.1	1049.9	1056.3	1057.4
25°	1027.6	1027.6	1025.4	1031.8	1030.7
27.5°	1000.9	1000.9	997.7	1003.1	1004.1
30°	969.0	970.1	969.0	974.3	973.2
32.5°	939.2	940.2	940.2	942.4	943.4
35°	905.1	906.2	906.2	910.4	910.4
37.5°	871.0	871.0	872.1	875.3	875.3
40°	834.8	835.9	835.9	839.1	840.1
42.5°	799.7	797.6	798.6	801.8	801.8
45°	759.2	760.3	761.3	762.4	762.4
47.5°	718.8	720.9	722.0	723.0	722.0
50°	678.3	680.4	680.4	679.4	679.4
52.5°	634.6	640.0	638.9	638.9	641.0
55°	593.1	595.2	596.3	596.3	595.2
57.5°	551.6	553.7	551.6	552.6	550.5
60°	506.9	507.9	506.9	506.9	506.9
62.5°	463.2	464.3	462.1	462.1	462.1
65°	418.5	418.5	418.5	416.3	420.6
67.5°	371.6	373.8	373.8	374.8	370.6
70°	328.0	329.0	328.0	326.9	324.8
72.5°	284.3	285.4	286.4	282.2	281.1
75°	239.6	239.6	238.5	237.5	237.5
77.5°	195.9	195.9	195.9	193.8	193.8
80°	153.3	154.4	152.3	152.3	151.2
82.5°	111.8	111.8	111.8	110.7	108.6
85°	72.4	70.3	71.3	69.2	69.2
87.5°	33.0	33.0	33.0	30.9	35.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)