

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: P291667

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291667
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3063.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

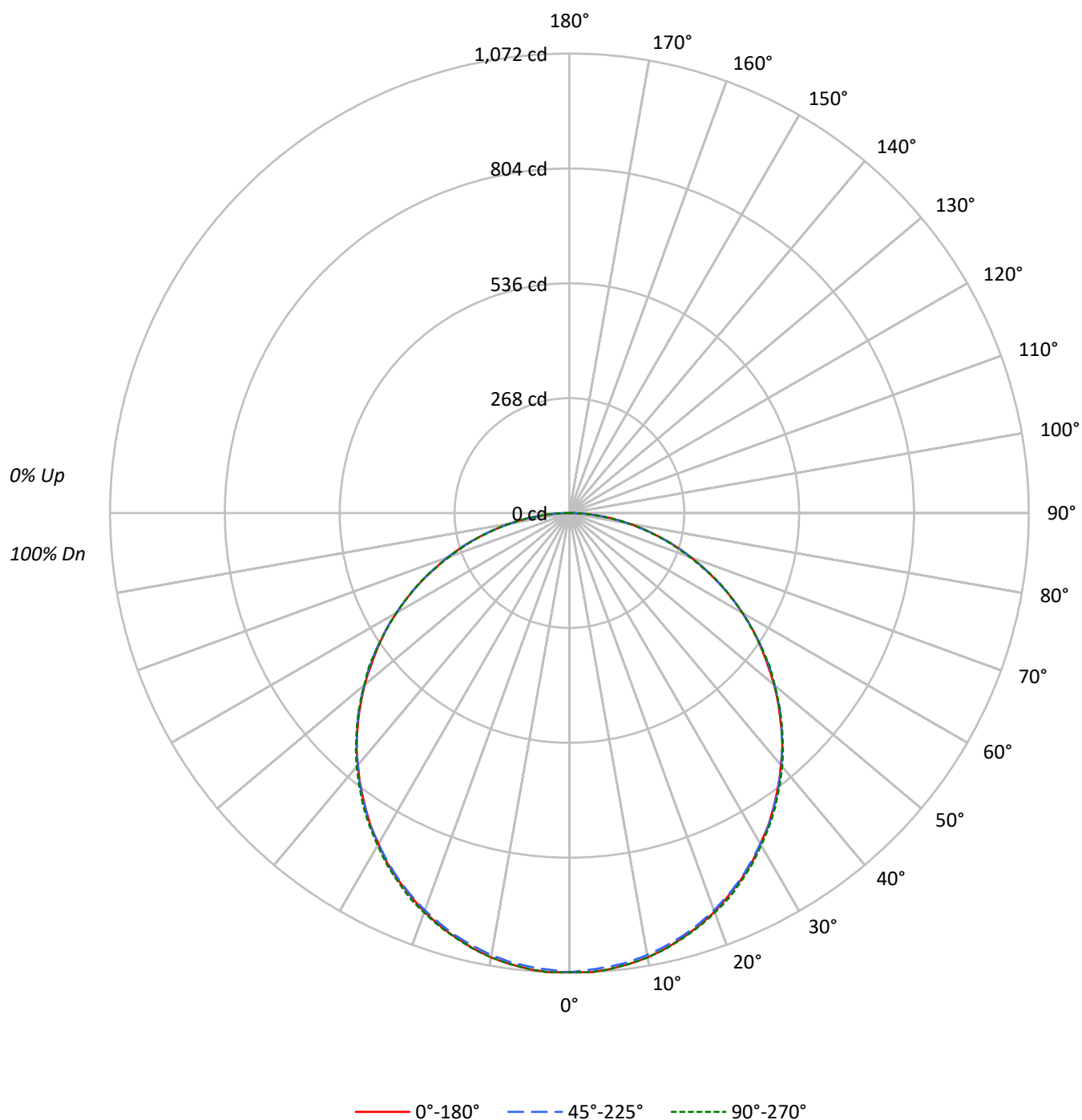
Input Watts (W): 37.479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P291667

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P291667

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L93050-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
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°	2883	2883	2883
5°	2886	2870	2886
10°	2876	2860	2876
15°	2856	2845	2859
20°	2835	2824	2840
25°	2806	2800	2814
30°	2769	2769	2781
35°	2734	2737	2750
40°	2697	2700	2714
45°	2657	2664	2668
50°	2611	2619	2615
55°	2559	2572	2568
60°	2509	2509	2509
65°	2450	2450	2463
70°	2373	2373	2349
75°	2290	2280	2271
80°	2185	2170	2154
85°	2056	2025	1964



TEST NUMBER: P291667

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	3.3
10°-20°	289.1	9.4
20°-30°	435.7	14.2
30°-40°	522.1	17.0
40°-50°	539.9	17.6
50°-60°	489.5	16.0
60°-70°	380.4	12.4
70°-80°	232.4	7.6
80°-90°	72.7	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°	826.0	27.0
0°-40°	1348.1	44.0
0°-60°	2377.5	77.6
0°-90°	3063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1071	1071	1071	1071	1071	
5°	1068	1067	1062	1067	1068	101
15°	1025	1025	1021	1026	1026	289
25°	945	945	943	949	948	435
35°	832	833	833	837	837	521
45°	698	699	700	701	701	539
55°	545	547	548	548	547	488
65°	385	385	385	383	387	380
75°	220	220	219	218	218	233
85°	67	65	66	64	64	74
90°	0	0	0	0	0	



TEST NUMBER: P291667

CATALOG NUMBER: 14GR-LD5-43-FGW080-UNV-L93050-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1071.2	1071.2	1071.2	1071.2	1071.2
2.5°	1072.2	1071.2	1066.3	1071.2	1072.2
5°	1068.3	1067.3	1062.4	1067.3	1068.3
7.5°	1061.4	1061.4	1056.5	1061.4	1061.4
10°	1052.6	1051.6	1046.7	1051.6	1052.6
12.5°	1039.9	1039.9	1035.0	1039.9	1040.8
15°	1025.2	1025.2	1021.3	1026.2	1026.2
17.5°	1008.5	1009.5	1004.6	1010.5	1010.5
20°	989.9	988.9	986.0	990.9	991.9
22.5°	967.4	968.4	965.4	971.3	972.3
25°	944.9	944.9	942.9	948.8	947.8
27.5°	920.4	920.4	917.5	922.4	923.3
30°	891.0	892.0	891.0	895.9	894.9
32.5°	863.6	864.6	864.6	866.5	867.5
35°	832.3	833.3	833.3	837.2	837.2
37.5°	800.9	800.9	801.9	804.9	804.9
40°	767.7	768.6	768.6	771.6	772.6
42.5°	735.3	733.4	734.4	737.3	737.3
45°	698.1	699.1	700.1	701.1	701.1
47.5°	660.9	662.9	663.9	664.8	663.9
50°	623.7	625.7	625.7	624.7	624.7
52.5°	583.6	588.5	587.5	587.5	589.4
55°	545.4	547.3	548.3	548.3	547.3
57.5°	507.2	509.2	507.2	508.2	506.2
60°	466.1	467.1	466.1	466.1	466.1
62.5°	425.9	426.9	425.0	425.0	425.0
65°	384.8	384.8	384.8	382.8	386.8
67.5°	341.7	343.7	343.7	344.7	340.7
70°	301.6	302.6	301.6	300.6	298.6
72.5°	261.4	262.4	263.4	259.5	258.5
75°	220.3	220.3	219.3	218.4	218.4
77.5°	180.2	180.2	180.2	178.2	178.2
80°	141.0	142.0	140.0	140.0	139.0
82.5°	102.8	102.8	102.8	101.8	99.9
85°	66.6	64.6	65.6	63.6	63.6
87.5°	30.4	30.4	30.4	28.4	32.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)