

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: P291630

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291630
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3390.0 lumens
Efficiency: N/A
Efficacy: 91.1 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

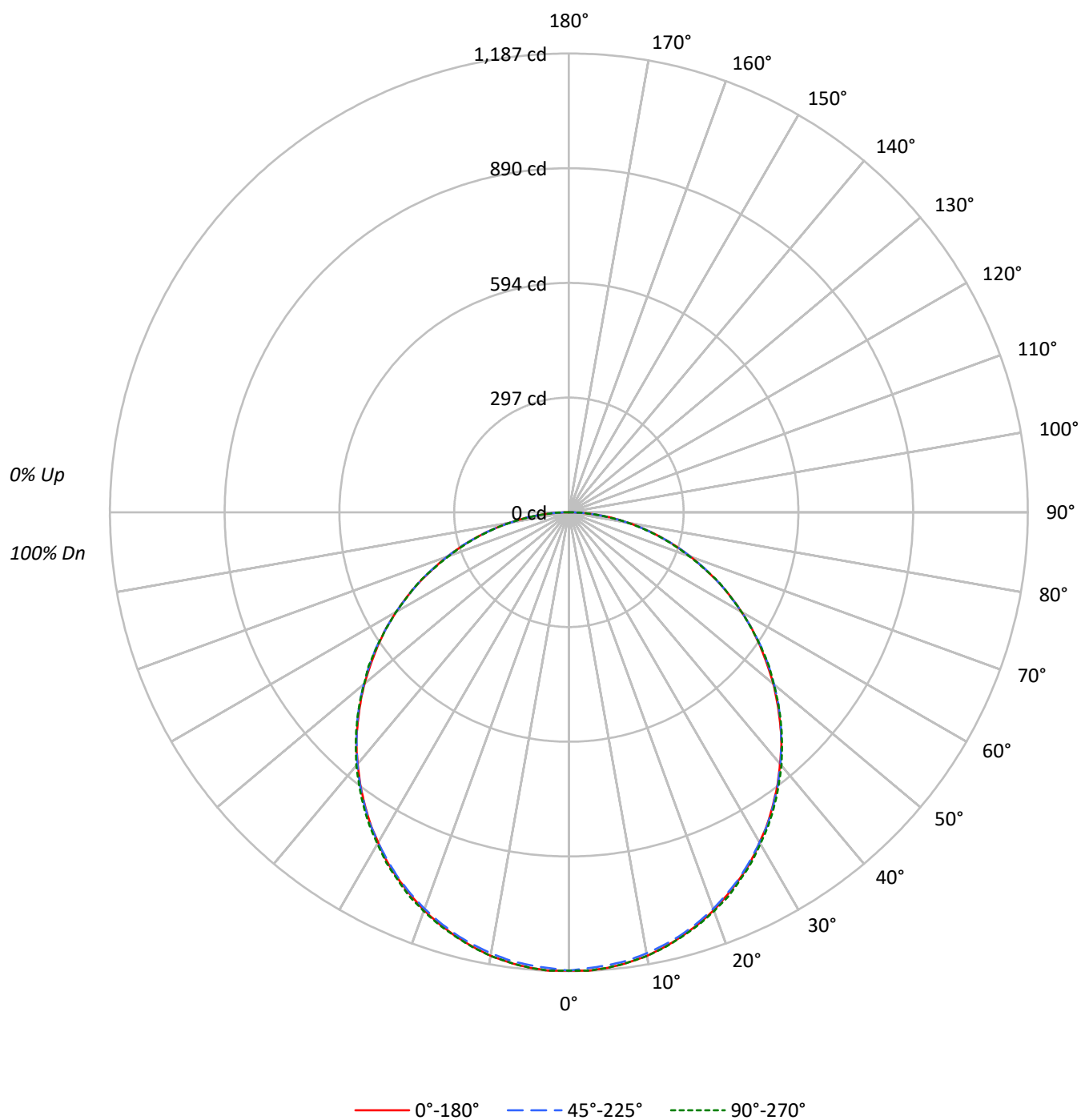
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3190	3190	3190
5°	3194	3176	3194
10°	3183	3166	3183
15°	3161	3149	3164
20°	3137	3125	3144
25°	3105	3099	3115
30°	3064	3064	3078
35°	3026	3029	3044
40°	2984	2988	3003
45°	2941	2949	2953
50°	2890	2899	2894
55°	2832	2847	2842
60°	2776	2776	2776
65°	2712	2712	2726
70°	2626	2626	2600
75°	2535	2523	2513
80°	2419	2402	2385
85°	2276	2242	2174



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	3.3
10°-20°	320.0	9.4
20°-30°	482.2	14.2
30°-40°	577.8	17.0
40°-50°	597.5	17.6
50°-60°	541.8	16.0
60°-70°	421.0	12.4
70°-80°	257.2	7.6
80°-90°	80.5	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°	914.2	27.0
0°-40°	1492.1	44.0
0°-60°	2631.3	77.6
0°-90°	3390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1186	1186	1186	1186	1186	
5°	1182	1181	1176	1181	1182	112
15°	1135	1135	1130	1136	1136	320
25°	1046	1046	1044	1050	1049	482
35°	921	922	922	927	927	576
45°	773	774	775	776	776	596
55°	604	606	607	607	606	540
65°	426	426	426	424	428	421
75°	244	244	243	242	242	258
85°	74	72	73	70	70	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1185.6	1185.6	1185.6	1185.6	1185.6
2.5°	1186.6	1185.6	1180.1	1185.6	1186.6
5°	1182.3	1181.2	1175.8	1181.2	1182.3
7.5°	1174.7	1174.7	1169.3	1174.7	1174.7
10°	1165.0	1163.9	1158.5	1163.9	1165.0
12.5°	1150.9	1150.9	1145.5	1150.9	1152.0
15°	1134.6	1134.6	1130.3	1135.7	1135.7
17.5°	1116.2	1117.3	1111.9	1118.4	1118.4
20°	1095.6	1094.5	1091.3	1096.7	1097.8
22.5°	1070.7	1071.8	1068.5	1075.0	1076.1
25°	1045.8	1045.8	1043.6	1050.1	1049.0
27.5°	1018.7	1018.7	1015.4	1020.8	1021.9
30°	986.2	987.2	986.2	991.6	990.5
32.5°	955.8	956.9	956.9	959.1	960.1
35°	921.1	922.2	922.2	926.6	926.6
37.5°	886.5	886.5	887.5	890.8	890.8
40°	849.6	850.7	850.7	853.9	855.0
42.5°	813.8	811.7	812.8	816.0	816.0
45°	772.7	773.8	774.8	775.9	775.9
47.5°	731.5	733.7	734.7	735.8	734.7
50°	690.3	692.5	692.5	691.4	691.4
52.5°	645.9	651.3	650.2	650.2	652.4
55°	603.6	605.8	606.9	606.9	605.8
57.5°	561.3	563.5	561.3	562.4	560.3
60°	515.8	516.9	515.8	515.8	515.8
62.5°	471.4	472.5	470.3	470.3	470.3
65°	425.9	425.9	425.9	423.7	428.1
67.5°	378.2	380.4	380.4	381.5	377.1
70°	333.8	334.9	333.8	332.7	330.5
72.5°	289.3	290.4	291.5	287.2	286.1
75°	243.8	243.8	242.7	241.7	241.7
77.5°	199.4	199.4	199.4	197.2	197.2
80°	156.1	157.1	155.0	155.0	153.9
82.5°	113.8	113.8	113.8	112.7	110.5
85°	73.7	71.5	72.6	70.4	70.4
87.5°	33.6	33.6	33.6	31.4	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)