

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: P291727

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291727
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-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: 2947.0 lumens
Efficiency: N/A
Efficacy: 79.6 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

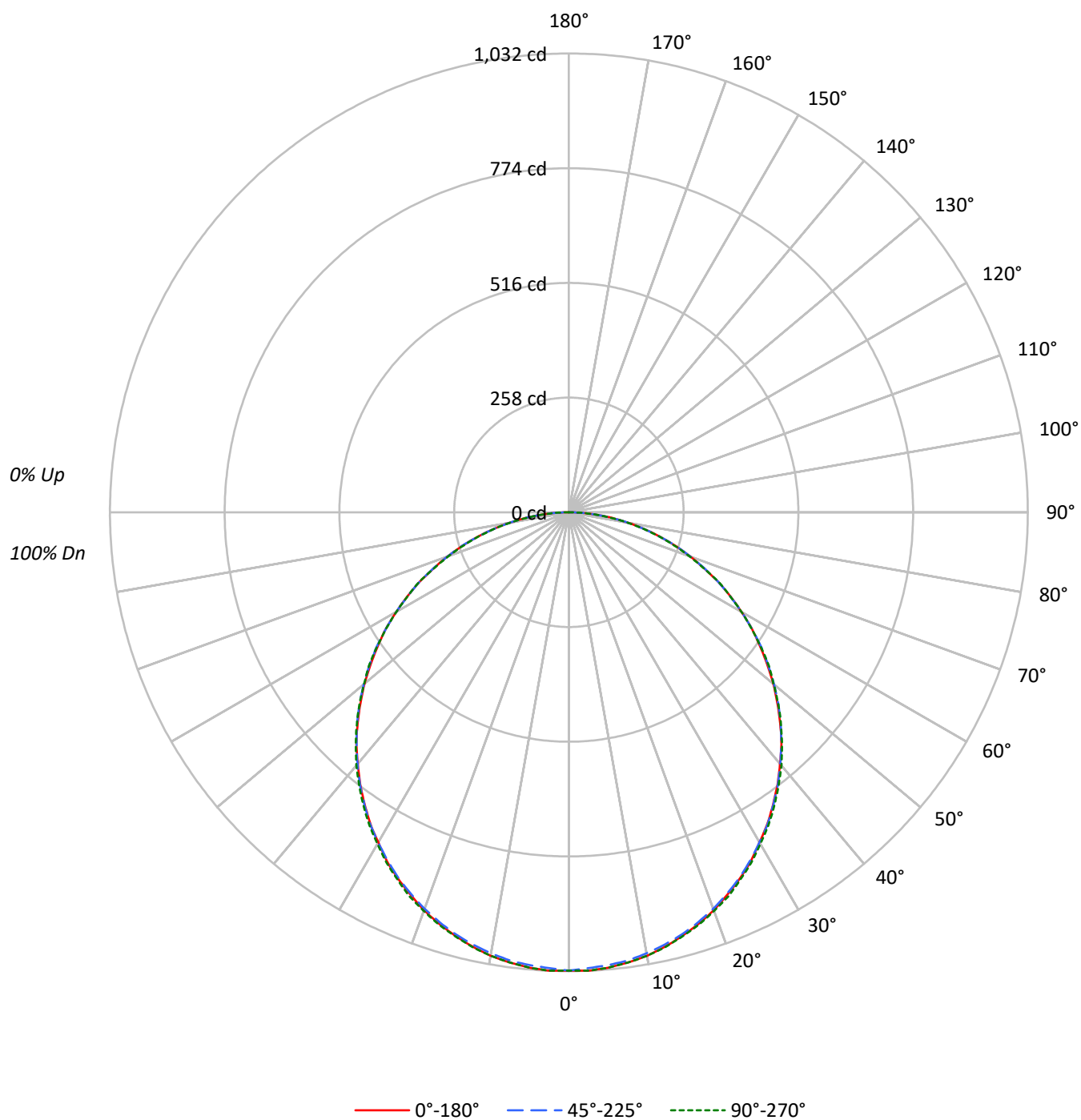
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2773	2773	2773
5°	2776	2761	2776
10°	2767	2752	2767
15°	2748	2737	2751
20°	2727	2717	2733
25°	2699	2694	2708
30°	2664	2664	2676
35°	2631	2634	2646
40°	2595	2598	2611
45°	2556	2563	2567
50°	2512	2520	2516
55°	2462	2475	2471
60°	2413	2413	2413
65°	2357	2357	2369
70°	2283	2283	2260
75°	2204	2194	2184
80°	2103	2087	2073
85°	1979	1948	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	3.3
10°-20°	278.1	9.4
20°-30°	419.2	14.2
30°-40°	502.3	17.0
40°-50°	519.4	17.6
50°-60°	471.0	16.0
60°-70°	366.0	12.4
70°-80°	223.6	7.6
80°-90°	70.0	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°	794.8	27.0
0°-40°	1297.1	44.0
0°-60°	2287.5	77.6
0°-90°	2947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1031	1031	1031	1031	1031	
5°	1028	1027	1022	1027	1028	98
15°	986	986	983	987	987	278
25°	909	909	907	913	912	419
35°	801	802	802	806	806	501
45°	672	673	674	674	674	518
55°	525	527	528	528	527	469
65°	370	370	370	368	372	366
75°	212	212	211	210	210	224
85°	64	62	63	61	61	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.6	1030.6	1030.6	1030.6	1030.6
2.5°	1031.6	1030.6	1025.9	1030.6	1031.6
5°	1027.8	1026.9	1022.1	1026.9	1027.8
7.5°	1021.2	1021.2	1016.5	1021.2	1021.2
10°	1012.7	1011.8	1007.1	1011.8	1012.7
12.5°	1000.5	1000.5	995.8	1000.5	1001.4
15°	986.3	986.3	982.6	987.3	987.3
17.5°	970.3	971.3	966.6	972.2	972.2
20°	952.4	951.5	948.7	953.4	954.3
22.5°	930.8	931.7	928.9	934.5	935.5
25°	909.1	909.1	907.2	912.9	911.9
27.5°	885.5	885.5	882.7	887.4	888.4
30°	857.3	858.2	857.3	862.0	861.1
32.5°	830.9	831.8	831.8	833.7	834.7
35°	800.8	801.7	801.7	805.5	805.5
37.5°	770.6	770.6	771.6	774.4	774.4
40°	738.6	739.5	739.5	742.4	743.3
42.5°	707.5	705.6	706.6	709.4	709.4
45°	671.7	672.6	673.6	674.5	674.5
47.5°	635.9	637.8	638.7	639.7	638.7
50°	600.1	602.0	602.0	601.0	601.0
52.5°	561.5	566.2	565.2	565.2	567.1
55°	524.7	526.6	527.6	527.6	526.6
57.5°	488.0	489.9	488.0	488.9	487.1
60°	448.4	449.4	448.4	448.4	448.4
62.5°	409.8	410.7	408.9	408.9	408.9
65°	370.2	370.2	370.2	368.3	372.1
67.5°	328.8	330.7	330.7	331.6	327.8
70°	290.2	291.1	290.2	289.2	287.3
72.5°	251.5	252.5	253.4	249.6	248.7
75°	212.0	212.0	211.0	210.1	210.1
77.5°	173.3	173.3	173.3	171.5	171.5
80°	135.7	136.6	134.7	134.7	133.8
82.5°	98.9	98.9	98.9	98.0	96.1
85°	64.1	62.2	63.1	61.2	61.2
87.5°	29.2	29.2	29.2	27.3	31.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)