

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: P291617

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291617
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-LD5-40-FGW080-UNV-L82765-W2A1-U-2700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2870.0 lumens
Efficiency: N/A
Efficacy: 85.2 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

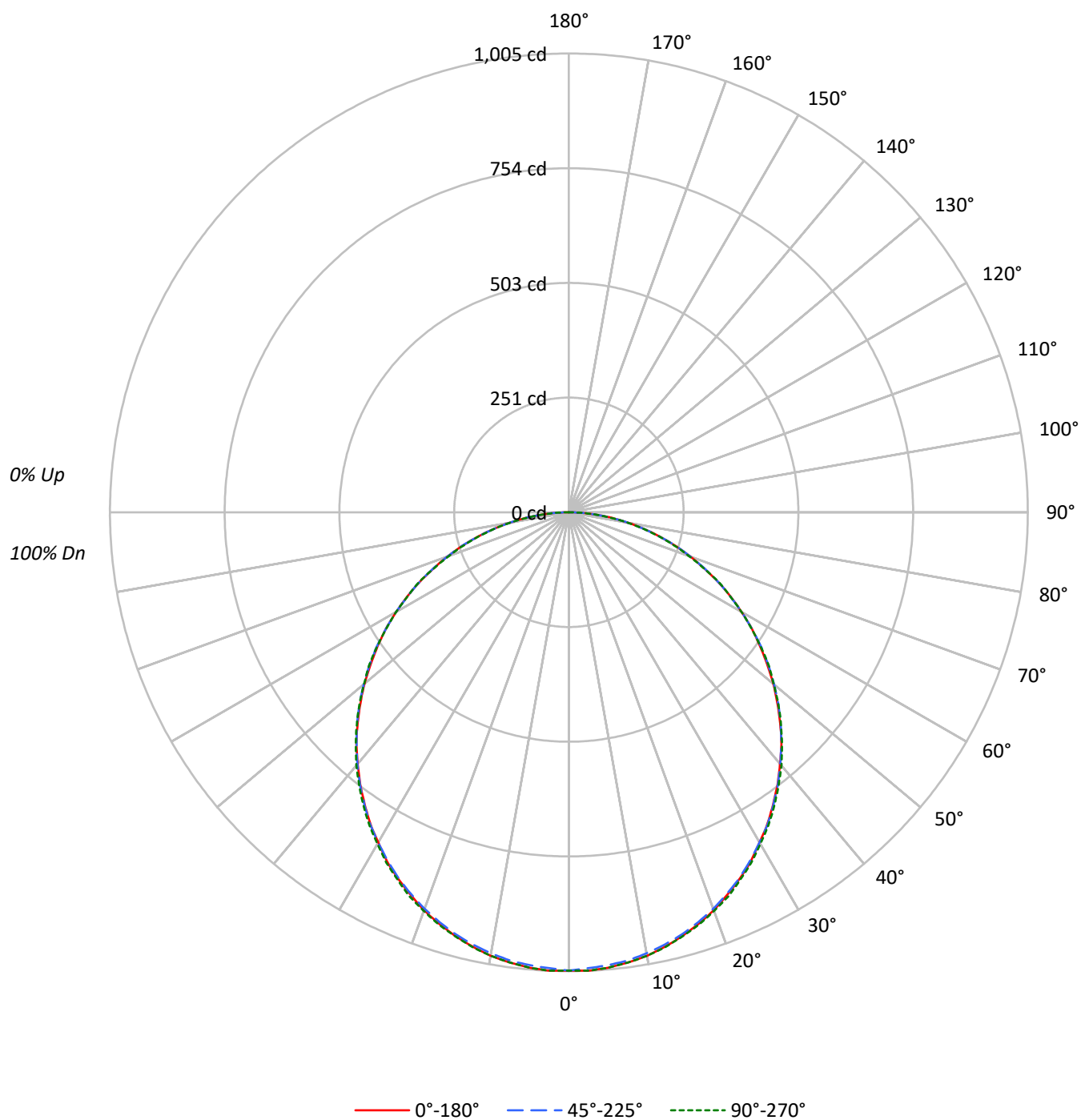
Input Watts (W): 33.666
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2701	2701	2701
5°	2704	2689	2704
10°	2695	2680	2695
15°	2676	2666	2679
20°	2656	2646	2662
25°	2629	2623	2637
30°	2594	2594	2606
35°	2562	2565	2577
40°	2527	2530	2543
45°	2489	2496	2500
50°	2447	2454	2450
55°	2397	2411	2406
60°	2350	2350	2350
65°	2296	2296	2308
70°	2223	2223	2201
75°	2146	2137	2127
80°	2047	2033	2019
85°	1927	1899	1840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.3
10°-20°	270.9	9.4
20°-30°	408.2	14.2
30°-40°	489.2	17.0
40°-50°	505.8	17.6
50°-60°	458.7	16.0
60°-70°	356.5	12.4
70°-80°	217.7	7.6
80°-90°	68.1	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°	774.0	27.0
0°-40°	1263.2	44.0
0°-60°	2227.7	77.6
0°-90°	2870.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	1001	1000	995	1000	1001	95
15°	961	961	957	962	962	271
25°	885	885	884	889	888	408
35°	780	781	781	784	784	488
45°	654	655	656	657	657	505
55°	511	513	514	514	513	457
65°	361	361	361	359	362	356
75°	206	206	206	205	205	218
85°	62	61	62	60	60	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.7	1003.7	1003.7	1003.7	1003.7
2.5°	1004.6	1003.7	999.1	1003.7	1004.6
5°	1000.9	1000.0	995.4	1000.0	1000.9
7.5°	994.5	994.5	989.9	994.5	994.5
10°	986.3	985.3	980.8	985.3	986.3
12.5°	974.3	974.3	969.8	974.3	975.3
15°	960.6	960.6	956.9	961.5	961.5
17.5°	945.0	945.9	941.3	946.8	946.8
20°	927.5	926.6	923.9	928.5	929.4
22.5°	906.4	907.4	904.6	910.1	911.0
25°	885.3	885.3	883.5	889.0	888.1
27.5°	862.4	862.4	859.7	864.2	865.2
30°	834.9	835.8	834.9	839.5	838.6
32.5°	809.2	810.1	810.1	811.9	812.9
35°	779.8	780.8	780.8	784.4	784.4
37.5°	750.5	750.5	751.4	754.1	754.1
40°	719.3	720.2	720.2	723.0	723.9
42.5°	689.0	687.2	688.1	690.8	690.8
45°	654.1	655.1	656.0	656.9	656.9
47.5°	619.3	621.1	622.0	623.0	622.0
50°	584.4	586.3	586.3	585.3	585.3
52.5°	546.8	551.4	550.5	550.5	552.3
55°	511.0	512.9	513.8	513.8	512.9
57.5°	475.2	477.1	475.2	476.2	474.3
60°	436.7	437.6	436.7	436.7	436.7
62.5°	399.1	400.0	398.2	398.2	398.2
65°	360.6	360.6	360.6	358.7	362.4
67.5°	320.2	322.0	322.0	322.9	319.3
70°	282.6	283.5	282.6	281.7	279.8
72.5°	245.0	245.9	246.8	243.1	242.2
75°	206.4	206.4	205.5	204.6	204.6
77.5°	168.8	168.8	168.8	167.0	167.0
80°	132.1	133.0	131.2	131.2	130.3
82.5°	96.3	96.3	96.3	95.4	93.6
85°	62.4	60.6	61.5	59.6	59.6
87.5°	28.4	28.4	28.4	26.6	30.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)