

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: P291717

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291717
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-L92765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2676.0 lumens
Efficiency: N/A
Efficacy: 79.3 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

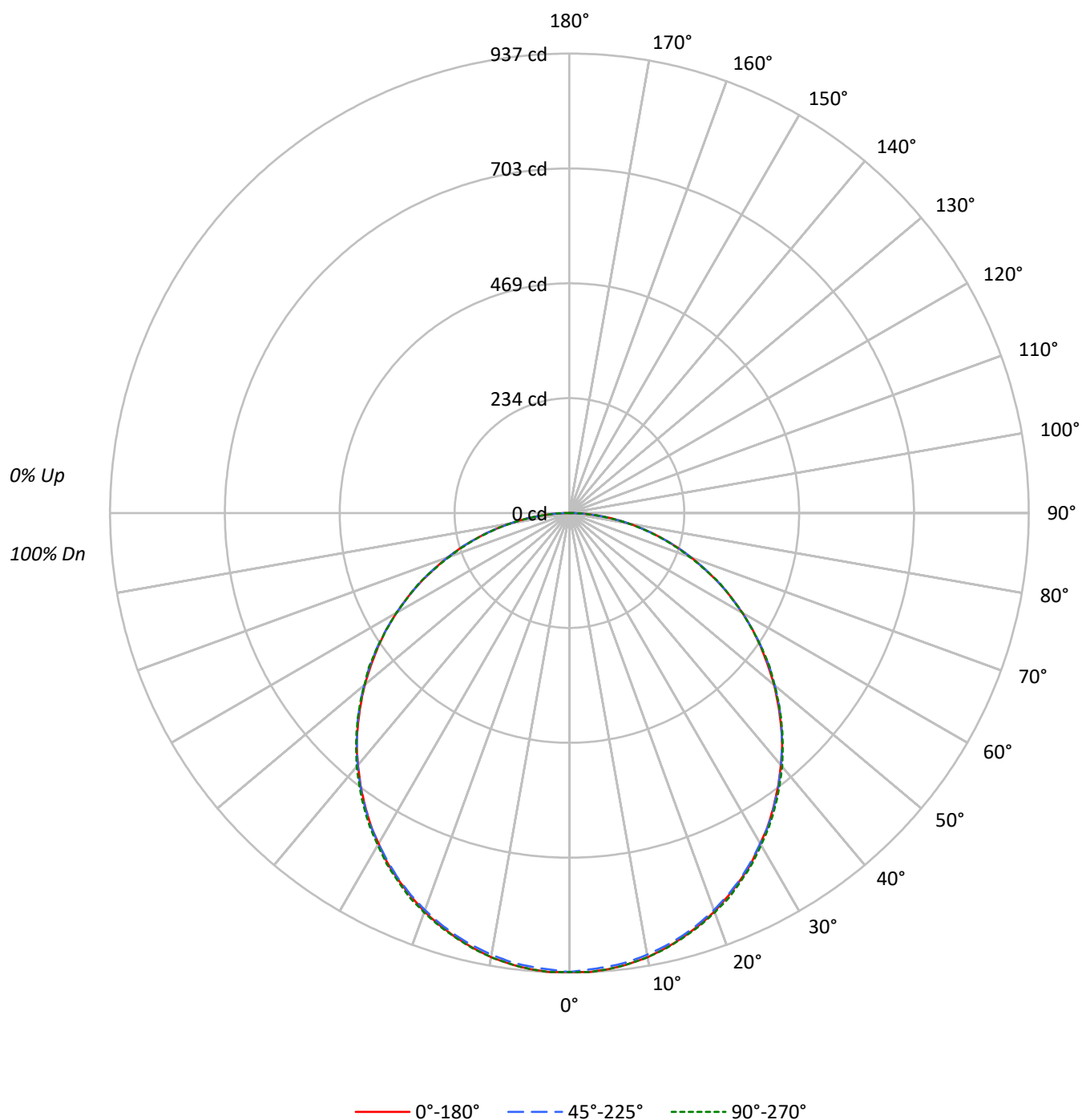
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	93		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	40	68	55	47	40		53	46	40		52	45	40		50	44	39
7	64	51	42	36	63	50	42	36		48	41	35		47	40	35		46	39	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2518	2518	2518
5°	2521	2507	2521
10°	2513	2499	2513
15°	2495	2486	2498
20°	2477	2467	2482
25°	2451	2446	2459
30°	2419	2419	2430
35°	2389	2392	2403
40°	2356	2359	2371
45°	2321	2328	2331
50°	2281	2288	2285
55°	2236	2247	2244
60°	2192	2192	2192
65°	2141	2141	2152
70°	2073	2073	2053
75°	2001	1992	1984
80°	1909	1895	1883
85°	1797	1769	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	3.3
10°-20°	252.6	9.4
20°-30°	380.6	14.2
30°-40°	456.1	17.0
40°-50°	471.6	17.6
50°-60°	427.7	16.0
60°-70°	332.4	12.4
70°-80°	203.0	7.6
80°-90°	63.5	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°	721.7	27.0
0°-40°	1177.8	44.0
0°-60°	2077.1	77.6
0°-90°	2676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	936	936	936	936	936	
5°	933	932	928	932	933	89
15°	896	896	892	896	896	253
25°	826	826	824	829	828	380
35°	727	728	728	731	731	455
45°	610	611	612	612	612	471
55°	476	478	479	479	478	426
65°	336	336	336	334	338	332
75°	192	192	192	191	191	204
85°	58	56	57	56	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.9	935.9	935.9	935.9	935.9
2.5°	936.7	935.9	931.6	935.9	936.7
5°	933.3	932.4	928.2	932.4	933.3
7.5°	927.3	927.3	923.0	927.3	927.3
10°	919.6	918.7	914.5	918.7	919.6
12.5°	908.5	908.5	904.2	908.5	909.3
15°	895.6	895.6	892.2	896.5	896.5
17.5°	881.1	882.0	877.7	882.8	882.8
20°	864.8	864.0	861.4	865.7	866.6
22.5°	845.2	846.0	843.5	848.6	849.5
25°	825.5	825.5	823.8	828.9	828.1
27.5°	804.1	804.1	801.5	805.8	806.7
30°	778.4	779.3	778.4	782.7	781.9
32.5°	754.5	755.4	755.4	757.1	757.9
35°	727.1	728.0	728.0	731.4	731.4
37.5°	699.7	699.7	700.6	703.2	703.2
40°	670.7	671.5	671.5	674.1	674.9
42.5°	642.4	640.7	641.6	644.1	644.1
45°	609.9	610.8	611.6	612.5	612.5
47.5°	577.4	579.1	580.0	580.8	580.0
50°	544.9	546.6	546.6	545.8	545.8
52.5°	509.8	514.1	513.3	513.3	515.0
55°	476.5	478.2	479.0	479.0	478.2
57.5°	443.1	444.8	443.1	444.0	442.3
60°	407.2	408.0	407.2	407.2	407.2
62.5°	372.1	373.0	371.3	371.3	371.3
65°	336.2	336.2	336.2	334.5	337.9
67.5°	298.5	300.3	300.3	301.1	297.7
70°	263.5	264.3	263.5	262.6	260.9
72.5°	228.4	229.3	230.1	226.7	225.8
75°	192.5	192.5	191.6	190.8	190.8
77.5°	157.4	157.4	157.4	155.7	155.7
80°	123.2	124.0	122.3	122.3	121.5
82.5°	89.8	89.8	89.8	89.0	87.3
85°	58.2	56.5	57.3	55.6	55.6
87.5°	26.5	26.5	26.5	24.8	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)