

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: P291610

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291610
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-LD5-36-FGW080-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2730.0 lumens
Efficiency: N/A
Efficacy: 92.9 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

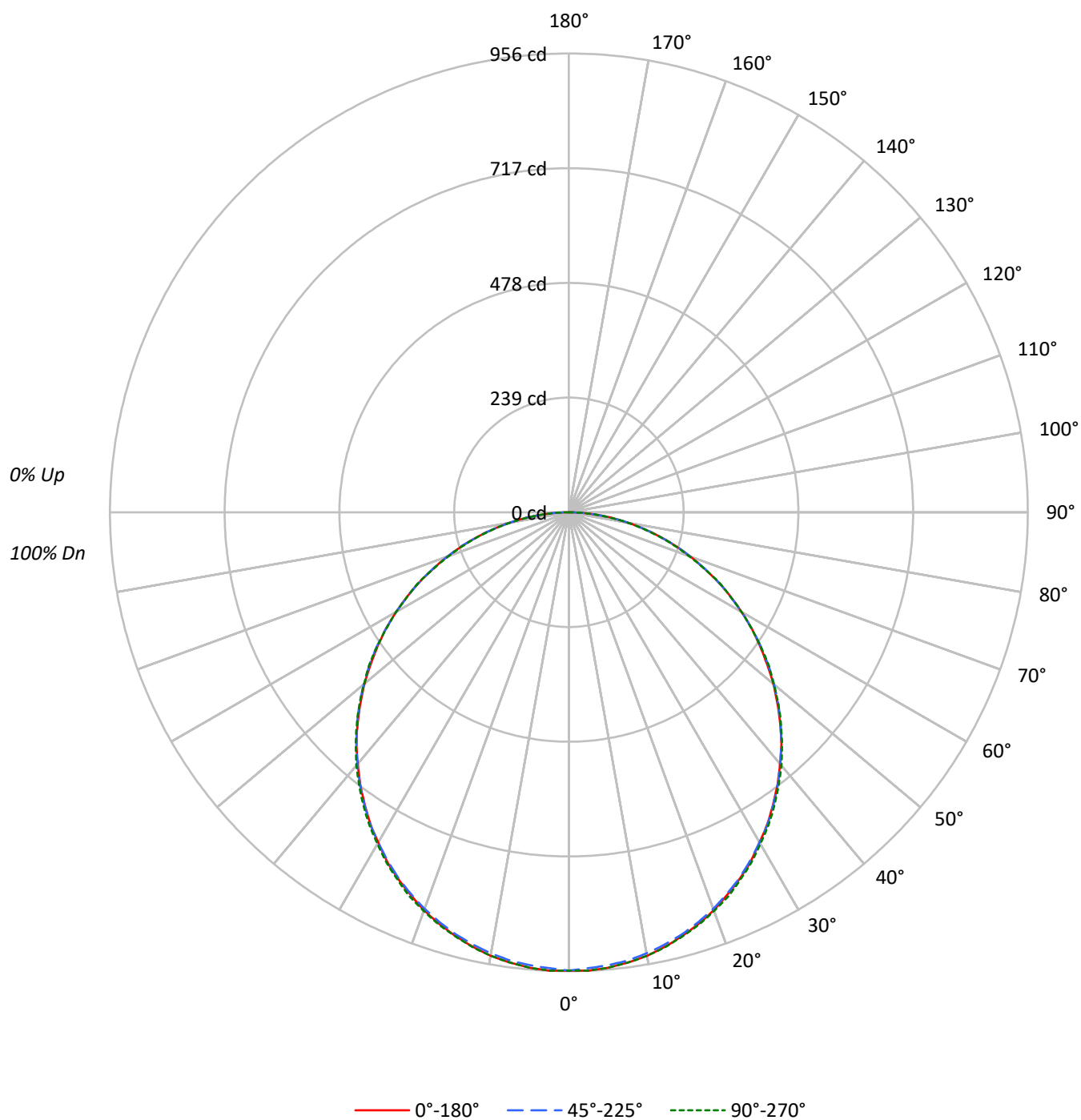
Input Watts (W): 29.388
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		37
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2569	2569	2569
5°	2572	2558	2572
10°	2564	2549	2564
15°	2545	2536	2548
20°	2527	2517	2531
25°	2501	2495	2508
30°	2468	2468	2478
35°	2437	2440	2451
40°	2403	2407	2419
45°	2368	2375	2378
50°	2327	2335	2331
55°	2281	2293	2289
60°	2236	2236	2236
65°	2184	2184	2195
70°	2115	2115	2094
75°	2042	2033	2023
80°	1948	1934	1920
85°	1831	1806	1751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.3
10°-20°	257.7	9.4
20°-30°	388.3	14.2
30°-40°	465.3	17.0
40°-50°	481.2	17.6
50°-60°	436.3	16.0
60°-70°	339.1	12.4
70°-80°	207.1	7.6
80°-90°	64.8	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°	736.2	27.0
0°-40°	1201.6	44.0
0°-60°	2119.0	77.6
0°-90°	2730.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2730.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	955	955	955	955	955	
5°	952	951	947	951	952	90
15°	914	914	910	915	915	258
25°	842	842	840	846	845	388
35°	742	743	743	746	746	464
45°	622	623	624	625	625	480
55°	486	488	489	489	488	435
65°	343	343	343	341	345	339
75°	196	196	196	195	195	208
85°	59	58	58	57	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.7	954.7	954.7	954.7	954.7
2.5°	955.6	954.7	950.4	954.7	955.6
5°	952.1	951.2	946.9	951.2	952.1
7.5°	946.0	946.0	941.6	946.0	946.0
10°	938.2	937.3	932.9	937.3	938.2
12.5°	926.8	926.8	922.4	926.8	927.7
15°	913.7	913.7	910.2	914.6	914.6
17.5°	898.9	899.8	895.4	900.6	900.6
20°	882.3	881.4	878.8	883.2	884.0
22.5°	862.2	863.1	860.5	865.7	866.6
25°	842.2	842.2	840.4	845.6	844.8
27.5°	820.3	820.3	817.7	822.1	823.0
30°	794.2	795.0	794.2	798.5	797.6
32.5°	769.7	770.6	770.6	772.3	773.2
35°	741.8	742.7	742.7	746.2	746.2
37.5°	713.9	713.9	714.7	717.4	717.4
40°	684.2	685.1	685.1	687.7	688.6
42.5°	655.4	653.7	654.5	657.1	657.1
45°	622.2	623.1	624.0	624.9	624.9
47.5°	589.1	590.8	591.7	592.6	591.7
50°	555.9	557.7	557.7	556.8	556.8
52.5°	520.1	524.5	523.6	523.6	525.4
55°	486.1	487.8	488.7	488.7	487.8
57.5°	452.1	453.8	452.1	452.9	451.2
60°	415.4	416.3	415.4	415.4	415.4
62.5°	379.6	380.5	378.8	378.8	378.8
65°	343.0	343.0	343.0	341.2	344.7
67.5°	304.6	306.3	306.3	307.2	303.7
70°	268.8	269.7	268.8	267.9	266.2
72.5°	233.0	233.9	234.8	231.3	230.4
75°	196.4	196.4	195.5	194.6	194.6
77.5°	160.6	160.6	160.6	158.8	158.8
80°	125.7	126.5	124.8	124.8	123.9
82.5°	91.6	91.6	91.6	90.8	89.0
85°	59.3	57.6	58.5	56.7	56.7
87.5°	27.1	27.1	27.1	25.3	28.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)