

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: P291613

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291613
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-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2878.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

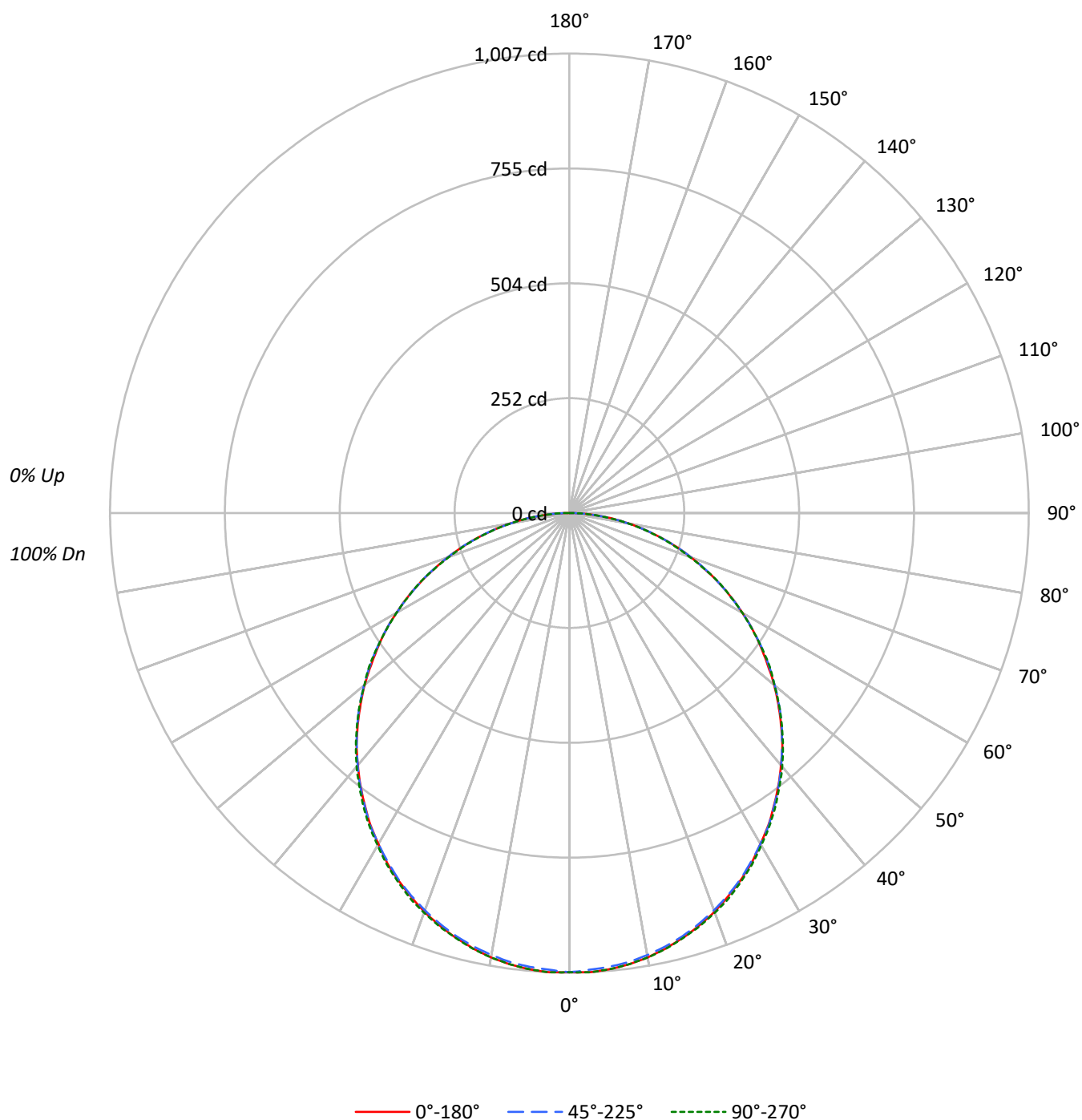
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2708	2708	2708
5°	2711	2696	2711
10°	2702	2687	2702
15°	2684	2673	2686
20°	2664	2653	2669
25°	2636	2631	2644
30°	2601	2601	2613
35°	2569	2572	2584
40°	2534	2537	2550
45°	2496	2503	2507
50°	2453	2461	2457
55°	2404	2417	2413
60°	2357	2357	2357
65°	2302	2302	2314
70°	2230	2230	2208
75°	2152	2143	2133
80°	2053	2039	2024
85°	1933	1902	1846



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.3
10°-20°	271.6	9.4
20°-30°	409.3	14.2
30°-40°	490.5	17.0
40°-50°	507.3	17.6
50°-60°	459.9	16.0
60°-70°	357.4	12.4
70°-80°	218.3	7.6
80°-90°	68.3	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°	776.2	27.0
0°-40°	1266.7	44.0
0°-60°	2233.9	77.6
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1004	1003	998	1003	1004	95
15°	963	963	960	964	964	272
25°	888	888	886	892	891	409
35°	782	783	783	787	787	489
45°	656	657	658	659	659	506
55°	512	514	515	515	514	458
65°	362	362	362	360	363	357
75°	207	207	206	205	205	219
85°	63	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°	1006.5	1006.5	1006.5	1006.5	1006.5
2.5°	1007.4	1006.5	1001.9	1006.5	1007.4
5°	1003.7	1002.8	998.2	1002.8	1003.7
7.5°	997.3	997.3	992.7	997.3	997.3
10°	989.0	988.1	983.5	988.1	989.0
12.5°	977.1	977.1	972.5	977.1	978.0
15°	963.3	963.3	959.6	964.2	964.2
17.5°	947.6	948.5	943.9	949.5	949.5
20°	930.1	929.2	926.5	931.1	932.0
22.5°	909.0	909.9	907.1	912.7	913.6
25°	887.8	887.8	886.0	891.5	890.6
27.5°	864.8	864.8	862.1	866.7	867.6
30°	837.2	838.1	837.2	841.8	840.9
32.5°	811.5	812.4	812.4	814.2	815.1
35°	782.0	782.9	782.9	786.6	786.6
37.5°	752.6	752.6	753.5	756.3	756.3
40°	721.3	722.2	722.2	725.0	725.9
42.5°	690.9	689.1	690.0	692.8	692.8
45°	656.0	656.9	657.8	658.7	658.7
47.5°	621.0	622.8	623.8	624.7	623.8
50°	586.0	587.9	587.9	587.0	587.0
52.5°	548.3	552.9	552.0	552.0	553.8
55°	512.4	514.3	515.2	515.2	514.3
57.5°	476.6	478.4	476.6	477.5	475.6
60°	437.9	438.8	437.9	437.9	437.9
62.5°	400.2	401.1	399.3	399.3	399.3
65°	361.6	361.6	361.6	359.7	363.4
67.5°	321.1	322.9	322.9	323.8	320.2
70°	283.4	284.3	283.4	282.4	280.6
72.5°	245.6	246.6	247.5	243.8	242.9
75°	207.0	207.0	206.1	205.2	205.2
77.5°	169.3	169.3	169.3	167.4	167.4
80°	132.5	133.4	131.6	131.6	130.6
82.5°	96.6	96.6	96.6	95.7	93.8
85°	62.6	60.7	61.6	59.8	59.8
87.5°	28.5	28.5	28.5	26.7	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)