

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: P291560

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291560
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-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.0 lumens
Efficiency: N/A
Efficacy: 96.5 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

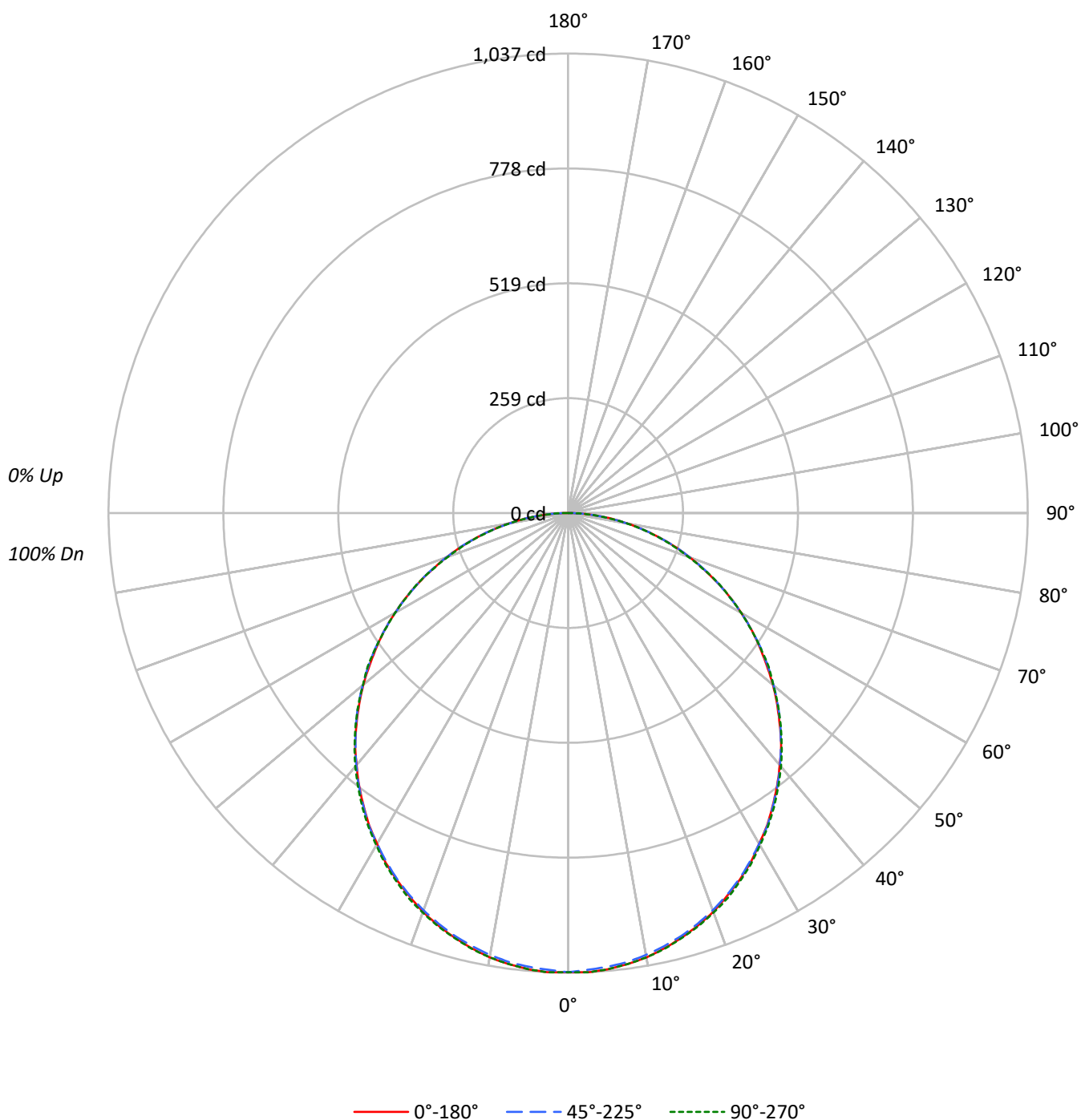
Input Watts (W): 30.69
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2788	2788	2788
5°	2791	2776	2791
10°	2782	2767	2782
15°	2763	2752	2765
20°	2742	2731	2748
25°	2714	2708	2722
30°	2678	2678	2690
35°	2645	2648	2660
40°	2609	2612	2625
45°	2570	2577	2581
50°	2526	2534	2530
55°	2475	2488	2484
60°	2427	2427	2427
65°	2370	2370	2382
70°	2295	2295	2273
75°	2216	2206	2196
80°	2114	2098	2084
85°	1988	1961	1902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.3
10°-20°	279.6	9.4
20°-30°	421.4	14.2
30°-40°	505.0	17.0
40°-50°	522.2	17.6
50°-60°	473.5	16.0
60°-70°	368.0	12.4
70°-80°	224.8	7.6
80°-90°	70.4	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°	799.1	27.0
0°-40°	1304.1	44.0
0°-60°	2299.9	77.6
0°-90°	2963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2963.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1033	1032	1028	1032	1033	98
15°	992	992	988	993	993	280
25°	914	914	912	918	917	421
35°	805	806	806	810	810	504
45°	675	676	677	678	678	521
55°	528	530	530	530	530	472
65°	372	372	372	370	374	368
75°	213	213	212	211	211	225
85°	64	62	64	62	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1036.2	1036.2	1036.2	1036.2	1036.2
2.5°	1037.2	1036.2	1031.5	1036.2	1037.2
5°	1033.4	1032.4	1027.7	1032.4	1033.4
7.5°	1026.7	1026.7	1022.0	1026.7	1026.7
10°	1018.2	1017.3	1012.5	1017.3	1018.2
12.5°	1005.9	1005.9	1001.2	1005.9	1006.9
15°	991.7	991.7	987.9	992.6	992.6
17.5°	975.6	976.5	971.8	977.5	977.5
20°	957.6	956.7	953.8	958.6	959.5
22.5°	935.8	936.8	933.9	939.6	940.6
25°	914.0	914.0	912.1	917.8	916.9
27.5°	890.4	890.4	887.5	892.2	893.2
30°	861.9	862.9	861.9	866.7	865.7
32.5°	835.4	836.4	836.4	838.3	839.2
35°	805.1	806.1	806.1	809.8	809.8
37.5°	774.8	774.8	775.7	778.6	778.6
40°	742.6	743.5	743.5	746.4	747.3
42.5°	711.3	709.4	710.4	713.2	713.2
45°	675.3	676.3	677.2	678.2	678.2
47.5°	639.3	641.2	642.2	643.1	642.2
50°	603.4	605.3	605.3	604.3	604.3
52.5°	564.5	569.3	568.3	568.3	570.2
55°	527.6	529.5	530.4	530.4	529.5
57.5°	490.6	492.5	490.6	491.6	489.7
60°	450.9	451.8	450.9	450.9	450.9
62.5°	412.0	413.0	411.1	411.1	411.1
65°	372.2	372.2	372.2	370.3	374.1
67.5°	330.6	332.5	332.5	333.4	329.6
70°	291.7	292.7	291.7	290.8	288.9
72.5°	252.9	253.8	254.8	251.0	250.1
75°	213.1	213.1	212.2	211.2	211.2
77.5°	174.3	174.3	174.3	172.4	172.4
80°	136.4	137.3	135.4	135.4	134.5
82.5°	99.5	99.5	99.5	98.5	96.6
85°	64.4	62.5	63.5	61.6	61.6
87.5°	29.4	29.4	29.4	27.5	31.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)