

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: P291614

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291614
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2907.0 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

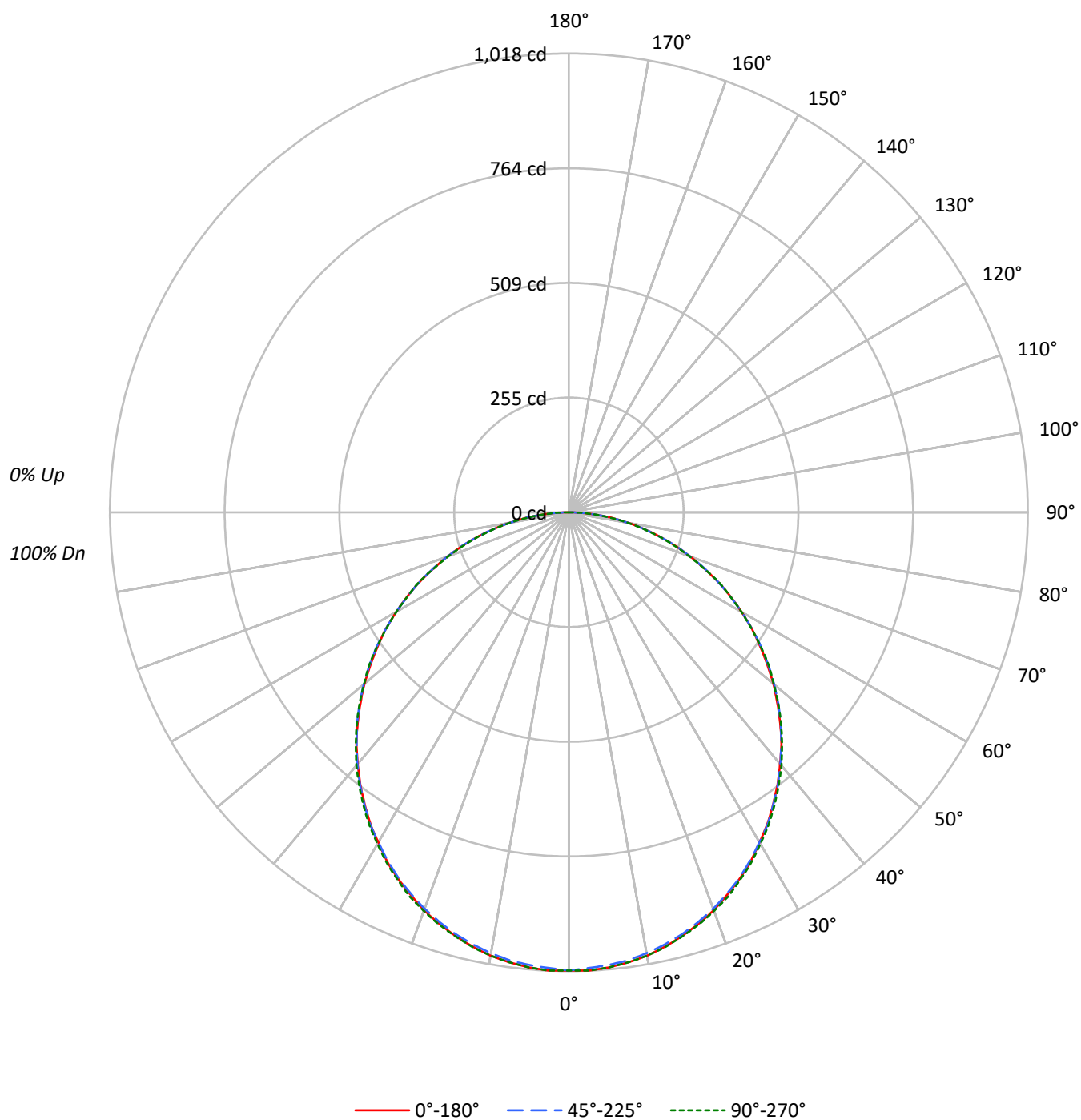
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2736	2736	2736
5°	2739	2724	2739
10°	2730	2714	2730
15°	2711	2700	2713
20°	2690	2680	2696
25°	2663	2657	2671
30°	2628	2628	2639
35°	2595	2598	2610
40°	2559	2563	2576
45°	2522	2528	2532
50°	2478	2486	2482
55°	2428	2441	2437
60°	2380	2380	2380
65°	2325	2325	2337
70°	2252	2252	2230
75°	2174	2165	2154
80°	2073	2060	2046
85°	1951	1924	1865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.1	3.3
10°-20°	274.4	9.4
20°-30°	413.5	14.2
30°-40°	495.5	17.0
40°-50°	512.4	17.6
50°-60°	464.6	16.0
60°-70°	361.0	12.4
70°-80°	220.5	7.6
80°-90°	69.0	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°	784.0	27.0
0°-40°	1279.5	44.0
0°-60°	2256.4	77.6
0°-90°	2907.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1014	1013	1008	1013	1014	96
15°	973	973	969	974	974	275
25°	897	897	895	900	900	413
35°	790	791	791	794	794	494
45°	663	664	664	665	665	511
55°	518	520	520	520	520	463
65°	365	365	365	363	367	361
75°	209	209	208	207	207	221
85°	63	61	62	60	60	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1016.6	1016.6	1016.6	1016.6	1016.6
2.5°	1017.6	1016.6	1012.0	1016.6	1017.6
5°	1013.8	1012.9	1008.3	1012.9	1013.8
7.5°	1007.3	1007.3	1002.7	1007.3	1007.3
10°	999.0	998.1	993.4	998.1	999.0
12.5°	986.9	986.9	982.3	986.9	987.8
15°	973.0	973.0	969.2	973.9	973.9
17.5°	957.2	958.1	953.4	959.0	959.0
20°	939.5	938.6	935.8	940.4	941.4
22.5°	918.1	919.1	916.3	921.8	922.8
25°	896.8	896.8	894.9	900.5	899.5
27.5°	873.5	873.5	870.7	875.4	876.3
30°	845.6	846.6	845.6	850.3	849.4
32.5°	819.6	820.6	820.6	822.4	823.3
35°	789.9	790.8	790.8	794.5	794.5
37.5°	760.2	760.2	761.1	763.9	763.9
40°	728.6	729.5	729.5	732.3	733.2
42.5°	697.9	696.0	697.0	699.8	699.8
45°	662.6	663.5	664.4	665.4	665.4
47.5°	627.3	629.1	630.1	631.0	630.1
50°	592.0	593.8	593.8	592.9	592.9
52.5°	553.9	558.5	557.6	557.6	559.4
55°	517.6	519.5	520.4	520.4	519.5
57.5°	481.4	483.2	481.4	482.3	480.4
60°	442.3	443.3	442.3	442.3	442.3
62.5°	404.2	405.2	403.3	403.3	403.3
65°	365.2	365.2	365.2	363.3	367.1
67.5°	324.3	326.2	326.2	327.1	323.4
70°	286.2	287.1	286.2	285.3	283.4
72.5°	248.1	249.0	250.0	246.3	245.3
75°	209.1	209.1	208.2	207.2	207.2
77.5°	171.0	171.0	171.0	169.1	169.1
80°	133.8	134.7	132.9	132.9	132.0
82.5°	97.6	97.6	97.6	96.6	94.8
85°	63.2	61.3	62.3	60.4	60.4
87.5°	28.8	28.8	28.8	26.9	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)