

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: P291615

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291615
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 96.7 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

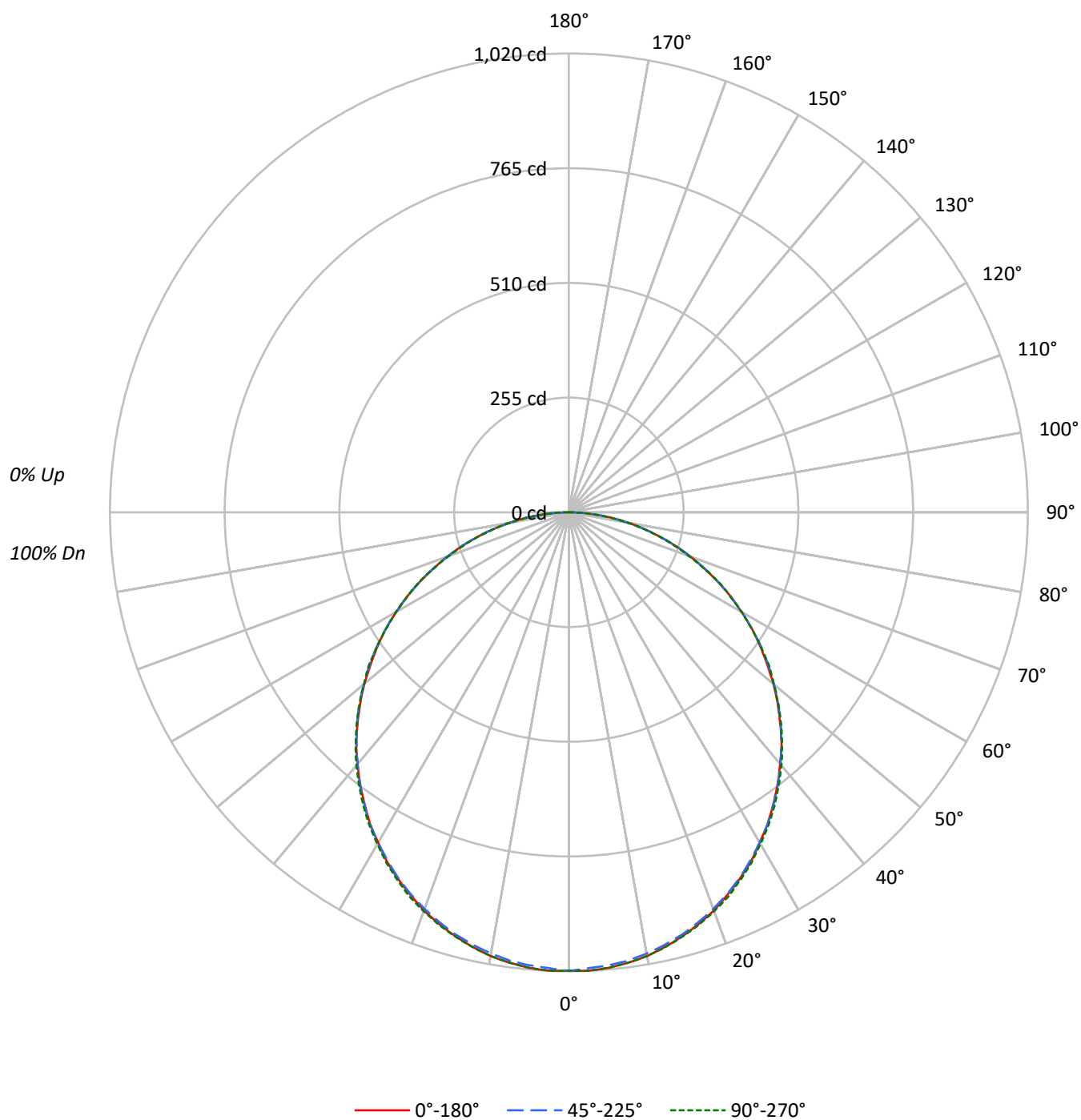
Input Watts (W): 30.132
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2742	2742	2742
5°	2745	2730	2745
10°	2736	2721	2736
15°	2717	2707	2720
20°	2697	2686	2702
25°	2669	2664	2677
30°	2634	2634	2646
35°	2601	2604	2617
40°	2565	2569	2582
45°	2528	2535	2538
50°	2484	2492	2488
55°	2434	2448	2443
60°	2386	2386	2386
65°	2331	2331	2343
70°	2257	2257	2235
75°	2179	2170	2159
80°	2078	2064	2050
85°	1954	1927	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	3.3
10°-20°	275.0	9.4
20°-30°	414.5	14.2
30°-40°	496.7	17.0
40°-50°	513.6	17.6
50°-60°	465.7	16.0
60°-70°	361.9	12.4
70°-80°	221.1	7.6
80°-90°	69.2	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°	785.9	27.0
0°-40°	1282.5	44.0
0°-60°	2261.8	77.6
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1019	1019	1019	1019	1019	
5°	1016	1015	1011	1015	1016	97
15°	975	975	972	976	976	275
25°	899	899	897	903	902	414
35°	792	793	793	796	796	496
45°	664	665	666	667	667	512
55°	519	521	522	522	521	464
65°	366	366	366	364	368	362
75°	210	210	209	208	208	222
85°	63	62	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°	1019.1	1019.1	1019.1	1019.1	1019.1
2.5°	1020.0	1019.1	1014.4	1019.1	1020.0
5°	1016.3	1015.4	1010.7	1015.4	1016.3
7.5°	1009.8	1009.8	1005.1	1009.8	1009.8
10°	1001.4	1000.5	995.8	1000.5	1001.4
12.5°	989.3	989.3	984.6	989.3	990.2
15°	975.3	975.3	971.6	976.2	976.2
17.5°	959.5	960.4	955.7	961.3	961.3
20°	941.8	940.8	938.0	942.7	943.6
22.5°	920.3	921.3	918.5	924.1	925.0
25°	898.9	898.9	897.1	902.6	901.7
27.5°	875.6	875.6	872.8	877.5	878.4
30°	847.7	848.6	847.7	852.3	851.4
32.5°	821.6	822.5	822.5	824.4	825.3
35°	791.8	792.7	792.7	796.5	796.5
37.5°	762.0	762.0	762.9	765.7	765.7
40°	730.3	731.2	731.2	734.0	735.0
42.5°	699.6	697.7	698.6	701.4	701.4
45°	664.2	665.1	666.0	667.0	667.0
47.5°	628.8	630.6	631.6	632.5	631.6
50°	593.4	595.2	595.2	594.3	594.3
52.5°	555.2	559.8	558.9	558.9	560.8
55°	518.9	520.7	521.7	521.7	520.7
57.5°	482.5	484.4	482.5	483.5	481.6
60°	443.4	444.3	443.4	443.4	443.4
62.5°	405.2	406.1	404.3	404.3	404.3
65°	366.1	366.1	366.1	364.2	368.0
67.5°	325.1	327.0	327.0	327.9	324.2
70°	286.9	287.8	286.9	286.0	284.1
72.5°	248.7	249.6	250.6	246.9	245.9
75°	209.6	209.6	208.7	207.7	207.7
77.5°	171.4	171.4	171.4	169.5	169.5
80°	134.1	135.1	133.2	133.2	132.3
82.5°	97.8	97.8	97.8	96.9	95.0
85°	63.3	61.5	62.4	60.5	60.5
87.5°	28.9	28.9	28.9	27.0	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)