

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: P291713

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291713
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-L92765-W2A1-U-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2635.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

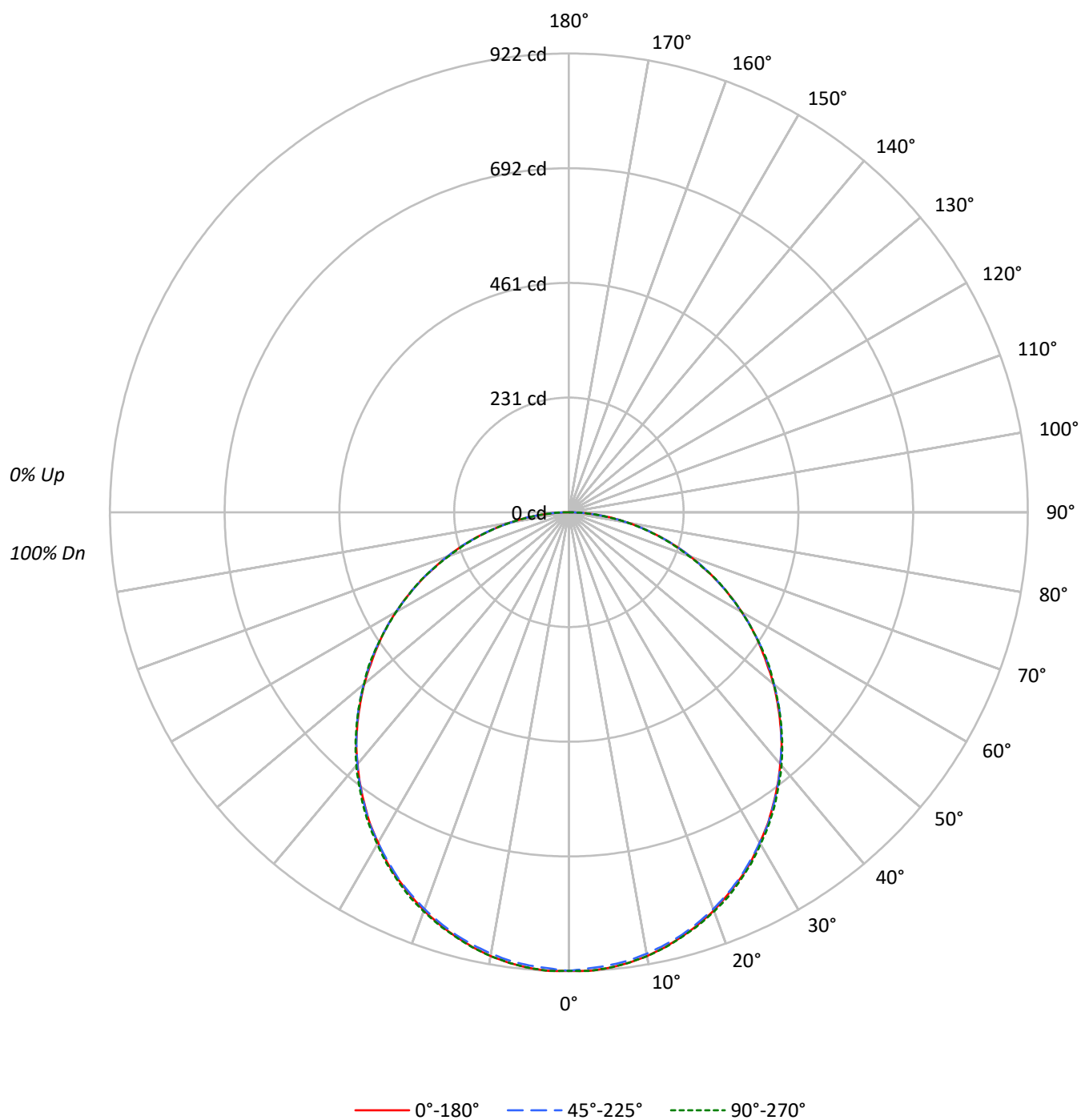
Input Watts (W): 30.225
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2480	2480	2480
5°	2482	2469	2482
10°	2474	2461	2474
15°	2457	2448	2459
20°	2439	2429	2444
25°	2414	2409	2421
30°	2382	2382	2392
35°	2352	2355	2366
40°	2320	2323	2335
45°	2286	2292	2295
50°	2246	2254	2250
55°	2201	2213	2209
60°	2158	2158	2158
65°	2108	2108	2118
70°	2041	2041	2021
75°	1970	1962	1953
80°	1880	1867	1853
85°	1769	1741	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	3.3
10°-20°	248.7	9.4
20°-30°	374.8	14.2
30°-40°	449.1	17.0
40°-50°	464.4	17.6
50°-60°	421.1	16.0
60°-70°	327.3	12.4
70°-80°	199.9	7.6
80°-90°	62.6	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°	710.6	27.0
0°-40°	1159.7	44.0
0°-60°	2045.3	77.6
0°-90°	2635.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2635.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	922	922	922	922	922	
5°	919	918	914	918	919	87
15°	882	882	879	883	883	249
25°	813	813	811	816	815	374
35°	716	717	717	720	720	448
45°	601	601	602	603	603	463
55°	469	471	472	472	471	420
65°	331	331	331	329	333	327
75°	190	190	189	188	188	200
85°	57	56	56	55	55	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	921.5	921.5	921.5	921.5	921.5
2.5°	922.4	921.5	917.3	921.5	922.4
5°	919.0	918.1	913.9	918.1	919.0
7.5°	913.1	913.1	908.9	913.1	913.1
10°	905.5	904.7	900.5	904.7	905.5
12.5°	894.6	894.6	890.3	894.6	895.4
15°	881.9	881.9	878.6	882.8	882.8
17.5°	867.6	868.4	864.2	869.3	869.3
20°	851.6	850.8	848.2	852.4	853.3
22.5°	832.2	833.1	830.5	835.6	836.4
25°	812.9	812.9	811.2	816.2	815.4
27.5°	791.8	791.8	789.3	793.5	794.3
30°	766.5	767.4	766.5	770.7	769.9
32.5°	742.9	743.8	743.8	745.5	746.3
35°	716.0	716.8	716.8	720.2	720.2
37.5°	689.0	689.0	689.9	692.4	692.4
40°	660.4	661.2	661.2	663.8	664.6
42.5°	632.6	630.9	631.7	634.3	634.3
45°	600.6	601.4	602.3	603.1	603.1
47.5°	568.6	570.3	571.1	571.9	571.1
50°	536.6	538.3	538.3	537.4	537.4
52.5°	502.0	506.2	505.4	505.4	507.1
55°	469.2	470.9	471.7	471.7	470.9
57.5°	436.3	438.0	436.3	437.2	435.5
60°	401.0	401.8	401.0	401.0	401.0
62.5°	366.4	367.3	365.6	365.6	365.6
65°	331.0	331.0	331.0	329.4	332.7
67.5°	294.0	295.7	295.7	296.5	293.1
70°	259.4	260.3	259.4	258.6	256.9
72.5°	224.9	225.7	226.6	223.2	222.4
75°	189.5	189.5	188.7	187.8	187.8
77.5°	155.0	155.0	155.0	153.3	153.3
80°	121.3	122.1	120.5	120.5	119.6
82.5°	88.4	88.4	88.4	87.6	85.9
85°	57.3	55.6	56.4	54.8	54.8
87.5°	26.1	26.1	26.1	24.4	27.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)