

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: P291604

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291604
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-LD5-32-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: 2575.0 lumens
Efficiency: N/A
Efficacy: 98.2 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

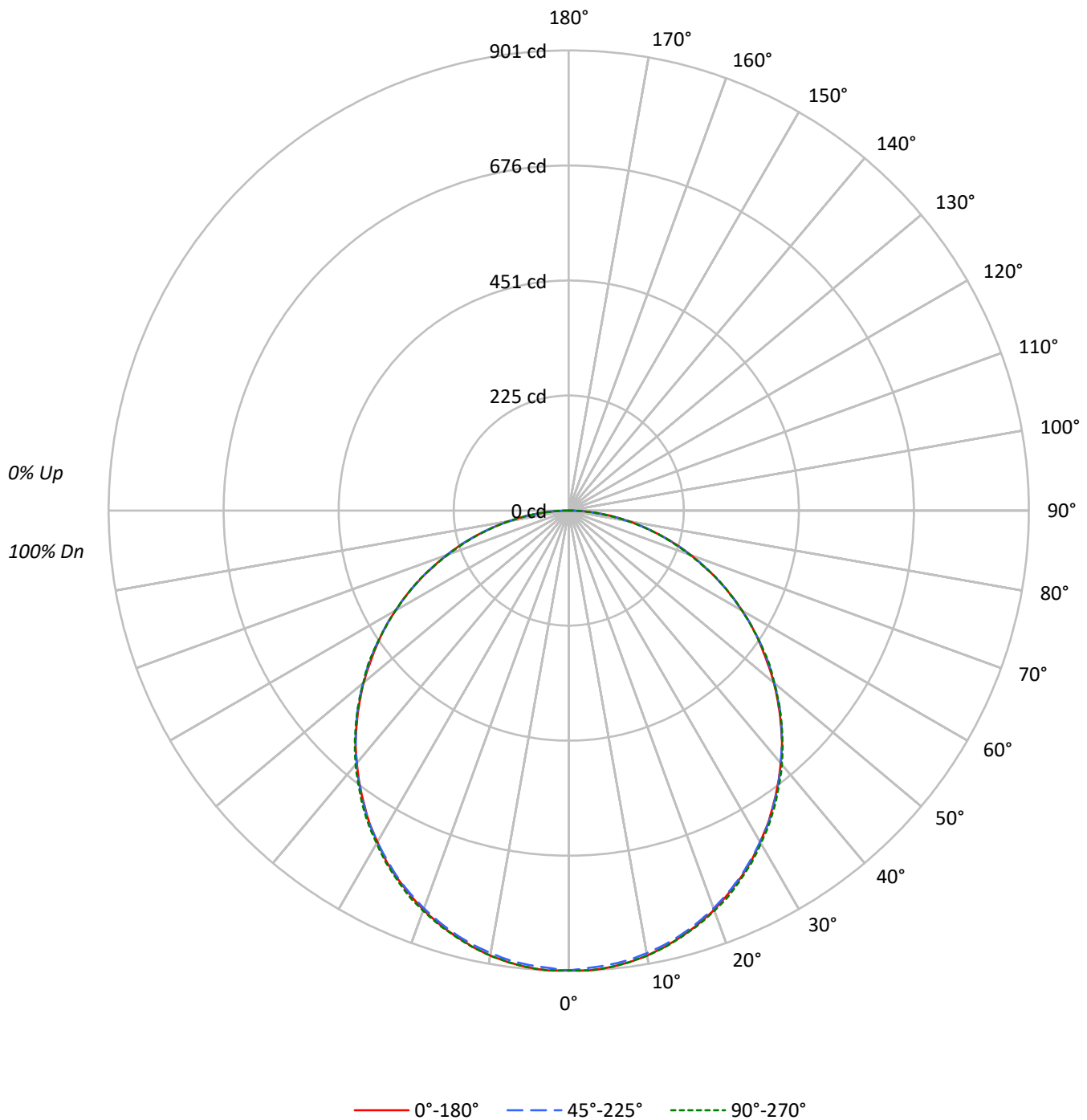
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2423	2423	2423
5°	2426	2412	2426
10°	2418	2405	2418
15°	2401	2392	2403
20°	2383	2374	2388
25°	2358	2354	2366
30°	2328	2328	2338
35°	2299	2301	2312
40°	2267	2270	2282
45°	2234	2240	2243
50°	2195	2202	2199
55°	2151	2163	2159
60°	2109	2109	2109
65°	2060	2060	2070
70°	1995	1995	1976
75°	1926	1917	1909
80°	1836	1824	1812
85°	1729	1704	1652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.2	3.3
10°-20°	243.0	9.4
20°-30°	366.2	14.2
30°-40°	438.9	17.0
40°-50°	453.8	17.6
50°-60°	411.5	16.0
60°-70°	319.8	12.4
70°-80°	195.3	7.6
80°-90°	61.1	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°	694.4	27.0
0°-40°	1133.3	44.0
0°-60°	1998.7	77.6
0°-90°	2575.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2575.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	900	900	900	900	900	
5°	898	897	893	897	898	85
15°	862	862	858	863	863	243
25°	794	794	793	798	797	366
35°	700	700	700	704	704	438
45°	587	588	589	589	589	453
55°	458	460	461	461	460	410
65°	324	324	324	322	325	320
75°	185	185	184	184	184	196
85°	56	54	55	54	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	900.5	900.5	900.5	900.5	900.5
2.5°	901.4	900.5	896.4	900.5	901.4
5°	898.1	897.2	893.1	897.2	898.1
7.5°	892.3	892.3	888.2	892.3	892.3
10°	884.9	884.1	880.0	884.1	884.9
12.5°	874.2	874.2	870.1	874.2	875.0
15°	861.8	861.8	858.5	862.7	862.7
17.5°	847.8	848.7	844.6	849.5	849.5
20°	832.2	831.4	828.9	833.0	833.9
22.5°	813.3	814.1	811.6	816.6	817.4
25°	794.3	794.3	792.7	797.6	796.8
27.5°	773.8	773.8	771.3	775.4	776.2
30°	749.1	749.9	749.1	753.2	752.4
32.5°	726.0	726.8	726.8	728.5	729.3
35°	699.7	700.5	700.5	703.8	703.8
37.5°	673.3	673.3	674.2	676.6	676.6
40°	645.4	646.2	646.2	648.6	649.5
42.5°	618.2	616.5	617.4	619.8	619.8
45°	586.9	587.7	588.6	589.4	589.4
47.5°	555.6	557.3	558.1	558.9	558.1
50°	524.3	526.0	526.0	525.2	525.2
52.5°	490.6	494.7	493.9	493.9	495.5
55°	458.5	460.1	461.0	461.0	460.1
57.5°	426.4	428.0	426.4	427.2	425.6
60°	391.8	392.6	391.8	391.8	391.8
62.5°	358.1	358.9	357.2	357.2	357.2
65°	323.5	323.5	323.5	321.9	325.1
67.5°	287.3	288.9	288.9	289.7	286.5
70°	253.5	254.4	253.5	252.7	251.1
72.5°	219.8	220.6	221.4	218.1	217.3
75°	185.2	185.2	184.4	183.6	183.6
77.5°	151.5	151.5	151.5	149.8	149.8
80°	118.5	119.4	117.7	117.7	116.9
82.5°	86.4	86.4	86.4	85.6	84.0
85°	56.0	54.3	55.2	53.5	53.5
87.5°	25.5	25.5	25.5	23.9	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)