

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: P291607

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291607
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-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2614.0 lumens
Efficiency: N/A
Efficacy: 97.6 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

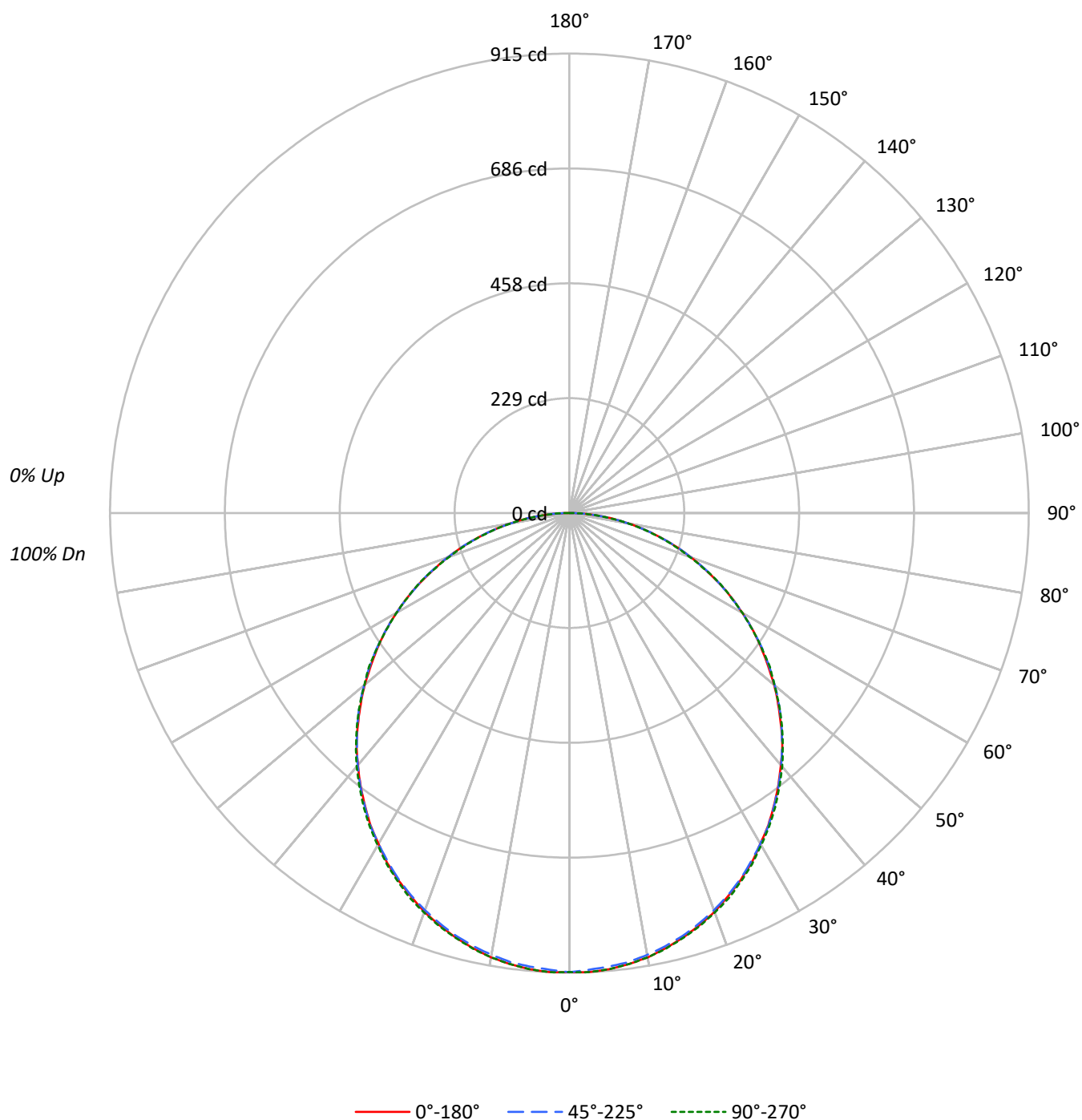
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2460	2460	2460
5°	2463	2449	2463
10°	2455	2441	2455
15°	2437	2428	2440
20°	2419	2410	2424
25°	2394	2389	2402
30°	2363	2363	2373
35°	2333	2336	2347
40°	2301	2304	2316
45°	2267	2274	2277
50°	2228	2236	2232
55°	2183	2195	2191
60°	2141	2141	2141
65°	2091	2091	2102
70°	2025	2025	2006
75°	1955	1946	1937
80°	1864	1852	1839
85°	1754	1729	1677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	3.3
10°-20°	246.7	9.4
20°-30°	371.8	14.2
30°-40°	445.6	17.0
40°-50°	460.7	17.6
50°-60°	417.8	16.0
60°-70°	324.7	12.4
70°-80°	198.3	7.6
80°-90°	62.1	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°	705.0	27.0
0°-40°	1150.5	44.0
0°-60°	2029.0	77.6
0°-90°	2614.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2614.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	912	911	907	911	912	87
15°	875	875	872	876	876	247
25°	806	806	805	810	809	371
35°	710	711	711	714	714	444
45°	596	597	598	598	598	460
55°	465	467	468	468	467	416
65°	328	328	328	327	330	324
75°	188	188	187	186	186	199
85°	57	55	56	54	54	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.2	914.2	914.2	914.2	914.2
2.5°	915.0	914.2	910.0	914.2	915.0
5°	911.7	910.8	906.6	910.8	911.7
7.5°	905.8	905.8	901.6	905.8	905.8
10°	898.3	897.5	893.3	897.5	898.3
12.5°	887.4	887.4	883.3	887.4	888.3
15°	874.9	874.9	871.6	875.7	875.7
17.5°	860.7	861.5	857.3	862.4	862.4
20°	844.8	844.0	841.5	845.6	846.5
22.5°	825.6	826.4	823.9	828.9	829.8
25°	806.4	806.4	804.7	809.7	808.9
27.5°	785.5	785.5	783.0	787.2	788.0
30°	760.4	761.2	760.4	764.6	763.8
32.5°	737.0	737.9	737.9	739.5	740.4
35°	710.3	711.1	711.1	714.5	714.5
37.5°	683.5	683.5	684.4	686.9	686.9
40°	655.1	656.0	656.0	658.5	659.3
42.5°	627.6	625.9	626.7	629.2	629.2
45°	595.8	596.6	597.5	598.3	598.3
47.5°	564.0	565.7	566.6	567.4	566.6
50°	532.3	534.0	534.0	533.1	533.1
52.5°	498.0	502.2	501.4	501.4	503.0
55°	465.4	467.1	467.9	467.9	467.1
57.5°	432.9	434.5	432.9	433.7	432.0
60°	397.8	398.6	397.8	397.8	397.8
62.5°	363.5	364.3	362.7	362.7	362.7
65°	328.4	328.4	328.4	326.7	330.1
67.5°	291.6	293.3	293.3	294.1	290.8
70°	257.4	258.2	257.4	256.5	254.9
72.5°	223.1	223.9	224.8	221.4	220.6
75°	188.0	188.0	187.2	186.3	186.3
77.5°	153.8	153.8	153.8	152.1	152.1
80°	120.3	121.2	119.5	119.5	118.7
82.5°	87.7	87.7	87.7	86.9	85.2
85°	56.8	55.2	56.0	54.3	54.3
87.5°	25.9	25.9	25.9	24.2	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)