

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: P291554

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291554
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-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2626.0 lumens
Efficiency: N/A
Efficacy: 100.1 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

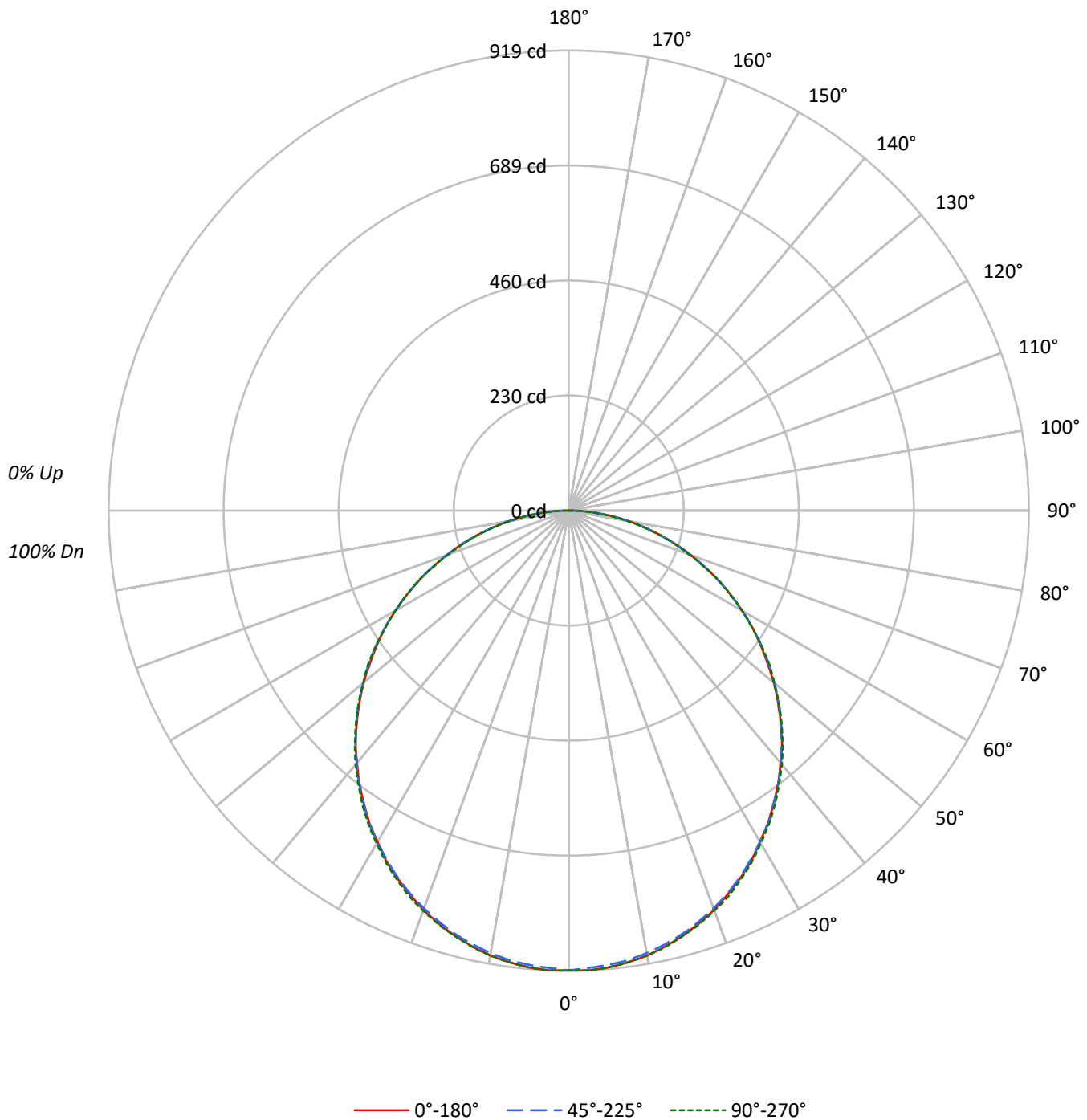
Input Watts (W): 26.226
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2471	2471	2471
5°	2474	2460	2474
10°	2466	2452	2466
15°	2449	2439	2451
20°	2430	2421	2435
25°	2405	2400	2413
30°	2374	2374	2384
35°	2344	2347	2358
40°	2312	2315	2327
45°	2278	2284	2288
50°	2238	2246	2242
55°	2194	2206	2202
60°	2151	2151	2151
65°	2101	2101	2111
70°	2035	2035	2014
75°	1964	1955	1946
80°	1874	1860	1847
85°	1763	1735	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.8	3.3
10°-20°	247.8	9.4
20°-30°	373.5	14.2
30°-40°	447.6	17.0
40°-50°	462.8	17.6
50°-60°	419.7	16.0
60°-70°	326.1	12.4
70°-80°	199.2	7.6
80°-90°	62.3	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°	708.2	27.0
0°-40°	1155.8	44.0
0°-60°	2038.3	77.6
0°-90°	2626.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	916	915	911	915	916	87
15°	879	879	876	880	880	248
25°	810	810	808	813	813	373
35°	714	714	714	718	718	447
45°	598	599	600	601	601	462
55°	468	469	470	470	469	418
65°	330	330	330	328	332	326
75°	189	189	188	187	187	200
85°	57	55	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°	918.4	918.4	918.4	918.4	918.4
2.5°	919.2	918.4	914.2	918.4	919.2
5°	915.8	915.0	910.8	915.0	915.8
7.5°	910.0	910.0	905.8	910.0	910.0
10°	902.4	901.6	897.4	901.6	902.4
12.5°	891.5	891.5	887.3	891.5	892.3
15°	878.9	878.9	875.6	879.7	879.7
17.5°	864.6	865.5	861.3	866.3	866.3
20°	848.7	847.9	845.3	849.5	850.4
22.5°	829.4	830.2	827.7	832.7	833.6
25°	810.1	810.1	808.4	813.4	812.6
27.5°	789.1	789.1	786.6	790.8	791.6
30°	763.9	764.7	763.9	768.1	767.3
32.5°	740.4	741.2	741.2	742.9	743.8
35°	713.5	714.4	714.4	717.7	717.7
37.5°	686.7	686.7	687.5	690.0	690.0
40°	658.1	659.0	659.0	661.5	662.3
42.5°	630.4	628.8	629.6	632.1	632.1
45°	598.5	599.4	600.2	601.1	601.1
47.5°	566.6	568.3	569.2	570.0	569.2
50°	534.7	536.4	536.4	535.6	535.6
52.5°	500.3	504.5	503.7	503.7	505.4
55°	467.6	469.3	470.1	470.1	469.3
57.5°	434.8	436.5	434.8	435.7	434.0
60°	399.6	400.4	399.6	399.6	399.6
62.5°	365.2	366.0	364.3	364.3	364.3
65°	329.9	329.9	329.9	328.2	331.6
67.5°	293.0	294.6	294.6	295.5	292.1
70°	258.6	259.4	258.6	257.7	256.0
72.5°	224.1	225.0	225.8	222.5	221.6
75°	188.9	188.9	188.0	187.2	187.2
77.5°	154.5	154.5	154.5	152.8	152.8
80°	120.9	121.7	120.0	120.0	119.2
82.5°	88.1	88.1	88.1	87.3	85.6
85°	57.1	55.4	56.2	54.6	54.6
87.5°	26.0	26.0	26.0	24.3	27.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)