

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: P291603

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291603
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-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2540.0 lumens
Efficiency: N/A
Efficacy: 97.2 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

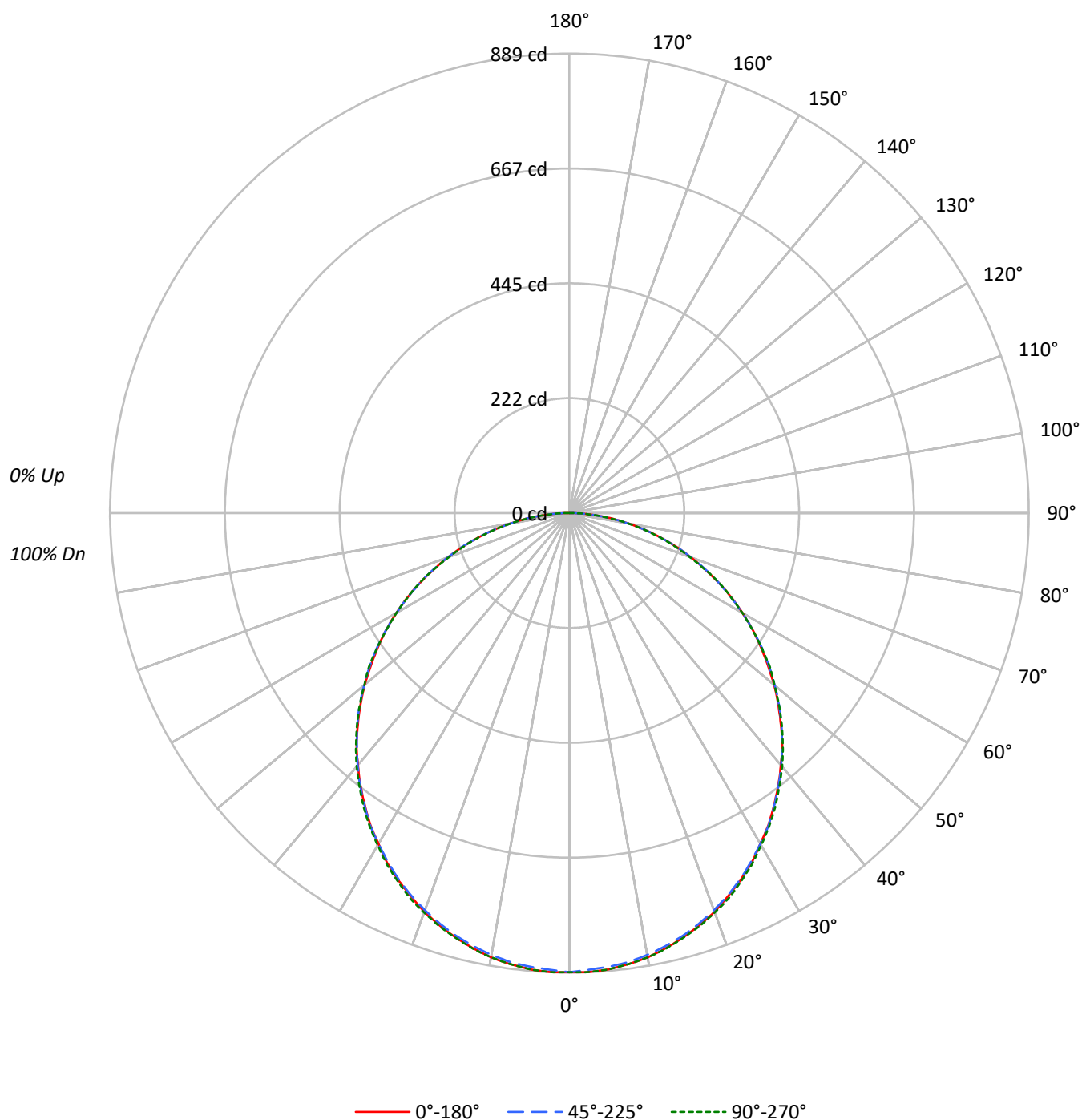
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	106	101	97	93	97	94	91		93	90	88		89
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		78
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55
6	70	56	47	40	68	55	47	40	53	46	40		52	45	40		50
7	64	51	42	36	63	50	42	36	48	41	35		47	40	35		46
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2390	2390	2390
5°	2393	2380	2393
10°	2385	2372	2385
15°	2368	2359	2371
20°	2351	2341	2355
25°	2326	2322	2334
30°	2296	2296	2306
35°	2267	2270	2281
40°	2236	2239	2250
45°	2203	2210	2213
50°	2165	2172	2169
55°	2122	2133	2130
60°	2080	2080	2080
65°	2032	2032	2042
70°	1968	1968	1948
75°	1900	1891	1883
80°	1812	1799	1787
85°	1704	1680	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.0	3.3
10°-20°	239.7	9.4
20°-30°	361.3	14.2
30°-40°	432.9	17.0
40°-50°	447.7	17.6
50°-60°	405.9	16.0
60°-70°	315.5	12.4
70°-80°	192.7	7.6
80°-90°	60.3	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°	685.0	27.0
0°-40°	1117.9	44.0
0°-60°	1971.5	77.6
0°-90°	2540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2540.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	888	888	888	888	888	
5°	886	885	881	885	886	84
15°	850	850	847	851	851	240
25°	784	784	782	787	786	361
35°	690	691	691	694	694	432
45°	579	580	581	581	581	447
55°	452	454	455	455	454	405
65°	319	319	319	318	321	315
75°	183	183	182	181	181	193
85°	55	54	54	53	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.3	888.3	888.3	888.3	888.3
2.5°	889.1	888.3	884.2	888.3	889.1
5°	885.9	885.0	881.0	885.0	885.9
7.5°	880.2	880.2	876.1	880.2	880.2
10°	872.9	872.0	868.0	872.0	872.9
12.5°	862.3	862.3	858.2	862.3	863.1
15°	850.1	850.1	846.9	850.9	850.9
17.5°	836.3	837.1	833.1	837.9	837.9
20°	820.9	820.1	817.6	821.7	822.5
22.5°	802.2	803.0	800.6	805.5	806.3
25°	783.5	783.5	781.9	786.8	786.0
27.5°	763.2	763.2	760.8	764.9	765.7
30°	738.9	739.7	738.9	742.9	742.1
32.5°	716.2	717.0	717.0	718.6	719.4
35°	690.2	691.0	691.0	694.2	694.2
37.5°	664.2	664.2	665.0	667.4	667.4
40°	636.6	637.4	637.4	639.8	640.6
42.5°	609.8	608.2	609.0	611.4	611.4
45°	578.9	579.7	580.6	581.4	581.4
47.5°	548.1	549.7	550.5	551.3	550.5
50°	517.2	518.8	518.8	518.0	518.0
52.5°	483.9	488.0	487.2	487.2	488.8
55°	452.3	453.9	454.7	454.7	453.9
57.5°	420.6	422.2	420.6	421.4	419.8
60°	386.5	387.3	386.5	386.5	386.5
62.5°	353.2	354.0	352.4	352.4	352.4
65°	319.1	319.1	319.1	317.5	320.7
67.5°	283.4	285.0	285.0	285.8	282.6
70°	250.1	250.9	250.1	249.3	247.6
72.5°	216.8	217.6	218.4	215.2	214.4
75°	182.7	182.7	181.9	181.1	181.1
77.5°	149.4	149.4	149.4	147.8	147.8
80°	116.9	117.7	116.1	116.1	115.3
82.5°	85.3	85.3	85.3	84.4	82.8
85°	55.2	53.6	54.4	52.8	52.8
87.5°	25.2	25.2	25.2	23.5	26.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)