

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: P291601

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291601
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-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2443.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

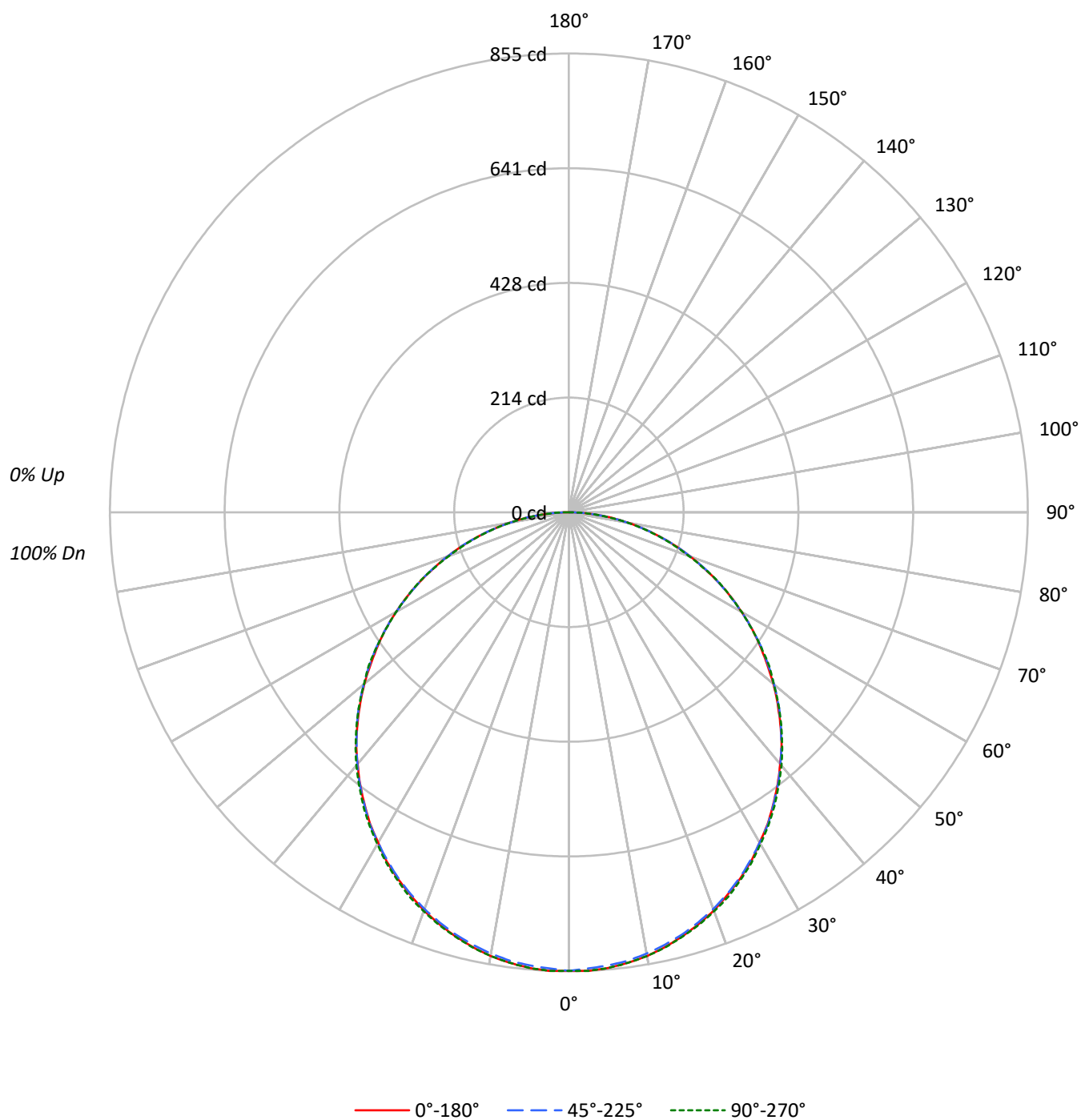
Input Watts (W): 25.761
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2299	2299	2299
5°	2301	2289	2301
10°	2294	2281	2294
15°	2278	2269	2280
20°	2261	2252	2265
25°	2238	2233	2245
30°	2208	2208	2218
35°	2181	2183	2193
40°	2151	2154	2165
45°	2119	2125	2128
50°	2083	2089	2086
55°	2041	2052	2048
60°	2000	2000	2000
65°	1954	1954	1964
70°	1892	1892	1874
75°	1827	1818	1811
80°	1743	1731	1719
85°	1639	1615	1568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.3
10°-20°	230.6	9.4
20°-30°	347.5	14.2
30°-40°	416.4	17.0
40°-50°	430.6	17.6
50°-60°	390.4	16.0
60°-70°	303.4	12.4
70°-80°	185.3	7.6
80°-90°	58.0	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°	658.8	27.0
0°-40°	1075.2	44.0
0°-60°	1896.2	77.6
0°-90°	2443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	852	851	847	851	852	81
15°	818	818	814	818	818	231
25°	754	754	752	757	756	347
35°	664	665	665	668	668	415
45°	557	558	558	559	559	430
55°	435	437	437	437	437	389
65°	307	307	307	305	308	303
75°	176	176	175	174	174	186
85°	53	52	52	51	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	854.4	854.4	854.4	854.4	854.4
2.5°	855.1	854.4	850.5	854.4	855.1
5°	852.0	851.2	847.3	851.2	852.0
7.5°	846.6	846.6	842.7	846.6	846.6
10°	839.5	838.7	834.8	838.7	839.5
12.5°	829.4	829.4	825.5	829.4	830.2
15°	817.7	817.7	814.5	818.4	818.4
17.5°	804.4	805.2	801.3	805.9	805.9
20°	789.5	788.8	786.4	790.3	791.1
22.5°	771.6	772.4	770.0	774.7	775.5
25°	753.6	753.6	752.1	756.7	756.0
27.5°	734.1	734.1	731.8	735.7	736.4
30°	710.7	711.5	710.7	714.6	713.8
32.5°	688.8	689.6	689.6	691.1	691.9
35°	663.8	664.6	664.6	667.7	667.7
37.5°	638.8	638.8	639.6	641.9	641.9
40°	612.3	613.1	613.1	615.4	616.2
42.5°	586.5	584.9	585.7	588.1	588.1
45°	556.8	557.6	558.4	559.2	559.2
47.5°	527.1	528.7	529.5	530.3	529.5
50°	497.5	499.0	499.0	498.2	498.2
52.5°	465.4	469.4	468.6	468.6	470.1
55°	435.0	436.6	437.3	437.3	436.6
57.5°	404.5	406.1	404.5	405.3	403.8
60°	371.7	372.5	371.7	371.7	371.7
62.5°	339.7	340.5	338.9	338.9	338.9
65°	306.9	306.9	306.9	305.4	308.5
67.5°	272.6	274.1	274.1	274.9	271.8
70°	240.5	241.3	240.5	239.8	238.2
72.5°	208.5	209.3	210.1	207.0	206.2
75°	175.7	175.7	174.9	174.2	174.2
77.5°	143.7	143.7	143.7	142.1	142.1
80°	112.5	113.2	111.7	111.7	110.9
82.5°	82.0	82.0	82.0	81.2	79.7
85°	53.1	51.5	52.3	50.8	50.8
87.5°	24.2	24.2	24.2	22.6	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)