

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: P291652

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291652
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-L93050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2296.0 lumens
Efficiency: N/A
Efficacy: 87.2 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

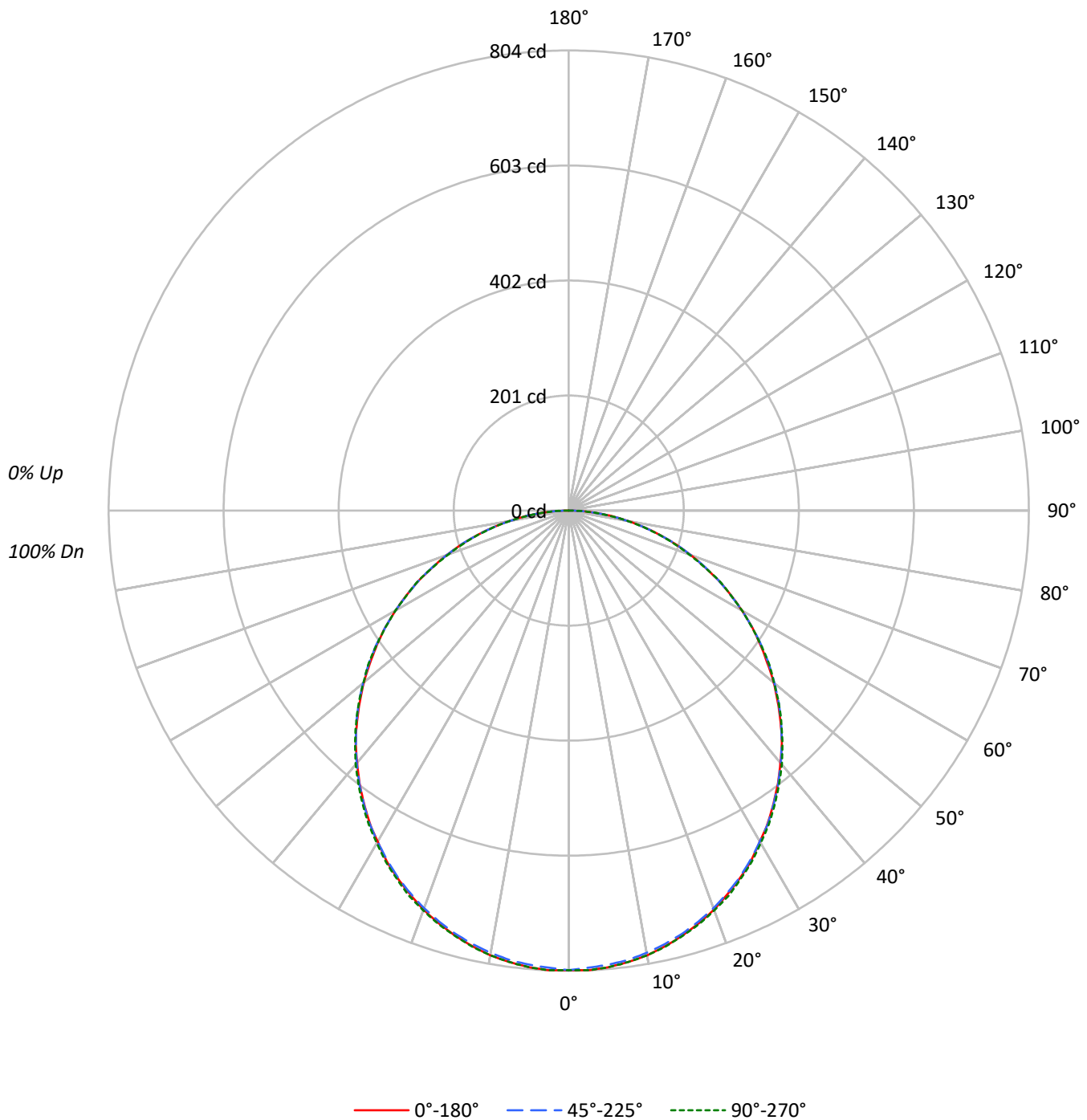
Input Watts (W): 26.319
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2161	2161	2161
5°	2163	2151	2163
10°	2156	2144	2156
15°	2141	2133	2143
20°	2125	2117	2129
25°	2103	2099	2110
30°	2075	2075	2084
35°	2050	2052	2061
40°	2021	2024	2034
45°	1991	1997	2000
50°	1957	1963	1961
55°	1918	1928	1925
60°	1880	1880	1880
65°	1836	1836	1846
70°	1779	1779	1762
75°	1717	1709	1702
80°	1638	1627	1615
85°	1541	1519	1473



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.9	3.3
10°-20°	216.7	9.4
20°-30°	326.6	14.2
30°-40°	391.3	17.0
40°-50°	404.7	17.6
50°-60°	366.9	16.0
60°-70°	285.2	12.4
70°-80°	174.2	7.6
80°-90°	54.5	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°	619.2	27.0
0°-40°	1010.5	44.0
0°-60°	1782.2	77.6
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	803	803	803	803	803	
5°	801	800	796	800	801	76
15°	768	768	766	769	769	217
25°	708	708	707	711	710	326
35°	624	625	625	628	628	390
45°	523	524	525	526	526	404
55°	409	410	411	411	410	366
65°	288	288	288	287	290	285
75°	165	165	164	164	164	175
85°	50	48	49	48	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	803.0	803.0	803.0	803.0	803.0
2.5°	803.7	803.0	799.3	803.0	803.7
5°	800.8	800.0	796.4	800.0	800.8
7.5°	795.6	795.6	791.9	795.6	795.6
10°	789.0	788.3	784.6	788.3	789.0
12.5°	779.5	779.5	775.8	779.5	780.2
15°	768.5	768.5	765.5	769.2	769.2
17.5°	756.0	756.7	753.0	757.5	757.5
20°	742.0	741.3	739.1	742.8	743.5
22.5°	725.2	725.9	723.7	728.1	728.8
25°	708.3	708.3	706.8	711.2	710.5
27.5°	689.9	689.9	687.7	691.4	692.1
30°	667.9	668.6	667.9	671.6	670.8
32.5°	647.4	648.1	648.1	649.6	650.3
35°	623.9	624.6	624.6	627.5	627.5
37.5°	600.4	600.4	601.1	603.3	603.3
40°	575.4	576.2	576.2	578.4	579.1
42.5°	551.2	549.7	550.5	552.7	552.7
45°	523.3	524.1	524.8	525.5	525.5
47.5°	495.4	496.9	497.6	498.4	497.6
50°	467.5	469.0	469.0	468.3	468.3
52.5°	437.4	441.1	440.4	440.4	441.8
55°	408.8	410.3	411.0	411.0	410.3
57.5°	380.2	381.7	380.2	380.9	379.5
60°	349.4	350.1	349.4	349.4	349.4
62.5°	319.3	320.0	318.5	318.5	318.5
65°	288.4	288.4	288.4	287.0	289.9
67.5°	256.2	257.6	257.6	258.4	255.4
70°	226.1	226.8	226.1	225.3	223.9
72.5°	196.0	196.7	197.4	194.5	193.8
75°	165.1	165.1	164.4	163.7	163.7
77.5°	135.0	135.0	135.0	133.6	133.6
80°	105.7	106.4	105.0	105.0	104.2
82.5°	77.1	77.1	77.1	76.3	74.9
85°	49.9	48.4	49.2	47.7	47.7
87.5°	22.8	22.8	22.8	21.3	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)