

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: P291657

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291657
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-LD5-36-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: 2566.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

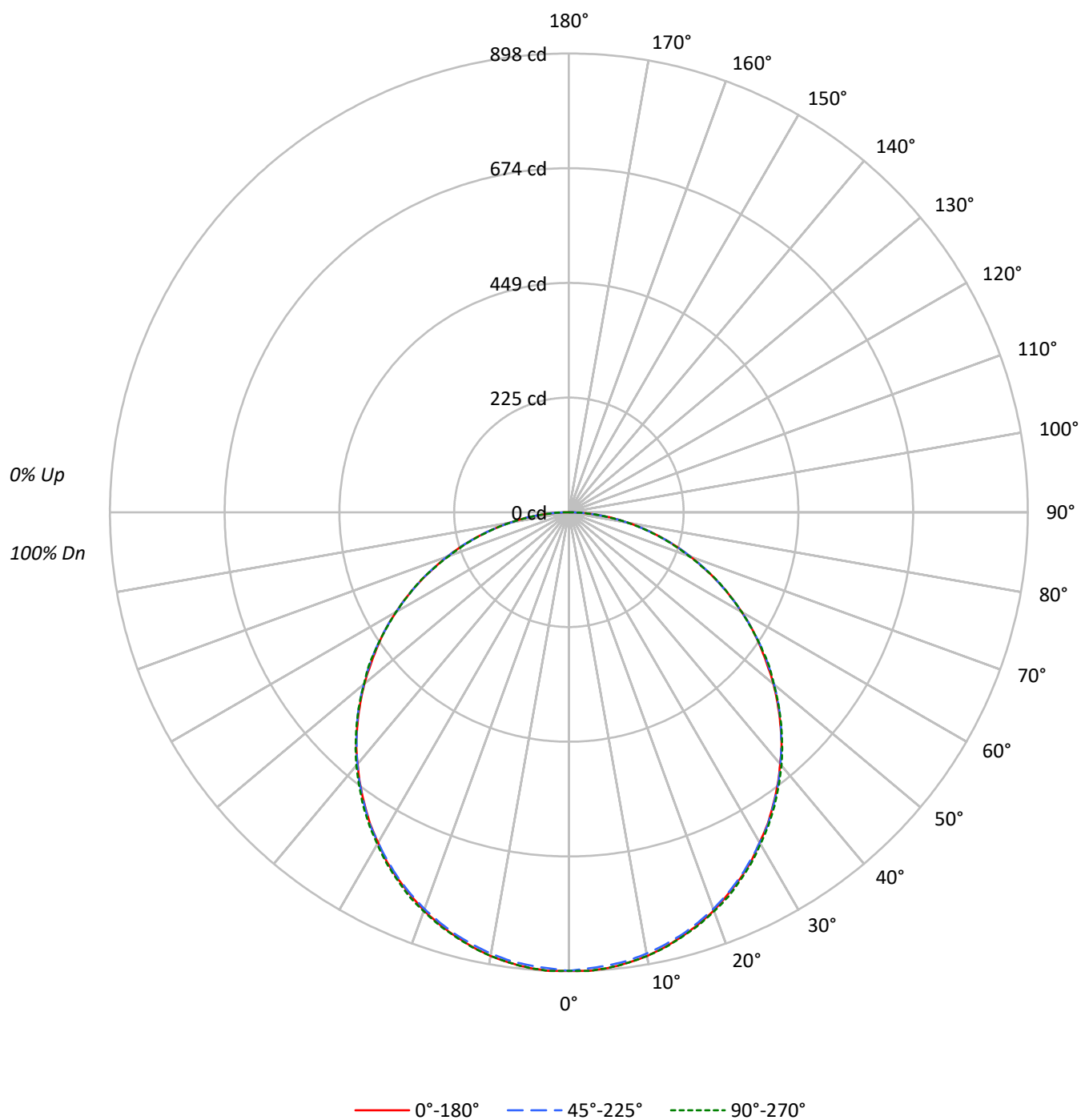
Input Watts (W): 30.039
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2415	2415	2415
5°	2417	2404	2417
10°	2410	2396	2410
15°	2393	2383	2395
20°	2375	2365	2379
25°	2350	2345	2358
30°	2320	2320	2330
35°	2290	2293	2304
40°	2259	2262	2273
45°	2226	2232	2235
50°	2187	2195	2191
55°	2144	2155	2151
60°	2102	2102	2102
65°	2053	2053	2063
70°	1987	1987	1969
75°	1919	1910	1902
80°	1830	1818	1805
85°	1723	1698	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.3
10°-20°	242.2	9.4
20°-30°	365.0	14.2
30°-40°	437.4	17.0
40°-50°	452.3	17.6
50°-60°	410.1	16.0
60°-70°	318.7	12.4
70°-80°	194.7	7.6
80°-90°	60.9	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°	692.0	27.0
0°-40°	1129.4	44.0
0°-60°	1991.7	77.6
0°-90°	2566.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2566.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	895	894	890	894	895	85
15°	859	859	856	860	860	242
25°	792	792	790	795	794	365
35°	697	698	698	701	701	436
45°	585	586	586	587	587	451
55°	457	458	459	459	458	409
65°	322	322	322	321	324	319
75°	185	185	184	183	183	195
85°	56	54	55	53	53	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	897.4	897.4	897.4	897.4	897.4
2.5°	898.2	897.4	893.3	897.4	898.2
5°	894.9	894.1	890.0	894.1	894.9
7.5°	889.2	889.2	885.1	889.2	889.2
10°	881.8	881.0	876.9	881.0	881.8
12.5°	871.1	871.1	867.0	871.1	872.0
15°	858.8	858.8	855.5	859.6	859.6
17.5°	844.9	845.7	841.6	846.5	846.5
20°	829.3	828.5	826.0	830.1	830.9
22.5°	810.4	811.3	808.8	813.7	814.5
25°	791.6	791.6	789.9	794.8	794.0
27.5°	771.1	771.1	768.6	772.7	773.5
30°	746.5	747.3	746.5	750.6	749.7
32.5°	723.5	724.3	724.3	725.9	726.8
35°	697.2	698.1	698.1	701.3	701.3
37.5°	671.0	671.0	671.8	674.3	674.3
40°	643.1	643.9	643.9	646.4	647.2
42.5°	616.0	614.4	615.2	617.7	617.7
45°	584.9	585.7	586.5	587.3	587.3
47.5°	553.7	555.3	556.1	557.0	556.1
50°	522.5	524.2	524.2	523.3	523.3
52.5°	488.9	493.0	492.2	492.2	493.8
55°	456.9	458.5	459.4	459.4	458.5
57.5°	424.9	426.5	424.9	425.7	424.1
60°	390.5	391.3	390.5	390.5	390.5
62.5°	356.8	357.6	356.0	356.0	356.0
65°	322.4	322.4	322.4	320.7	324.0
67.5°	286.3	287.9	287.9	288.7	285.5
70°	252.6	253.5	252.6	251.8	250.2
72.5°	219.0	219.8	220.7	217.4	216.6
75°	184.6	184.6	183.7	182.9	182.9
77.5°	150.9	150.9	150.9	149.3	149.3
80°	118.1	118.9	117.3	117.3	116.5
82.5°	86.1	86.1	86.1	85.3	83.7
85°	55.8	54.1	55.0	53.3	53.3
87.5°	25.4	25.4	25.4	23.8	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)