

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: P291648

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291648
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-LD5-28-FGW080-UNV-L93050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2058.0 lumens
Efficiency: N/A
Efficacy: 88.9 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

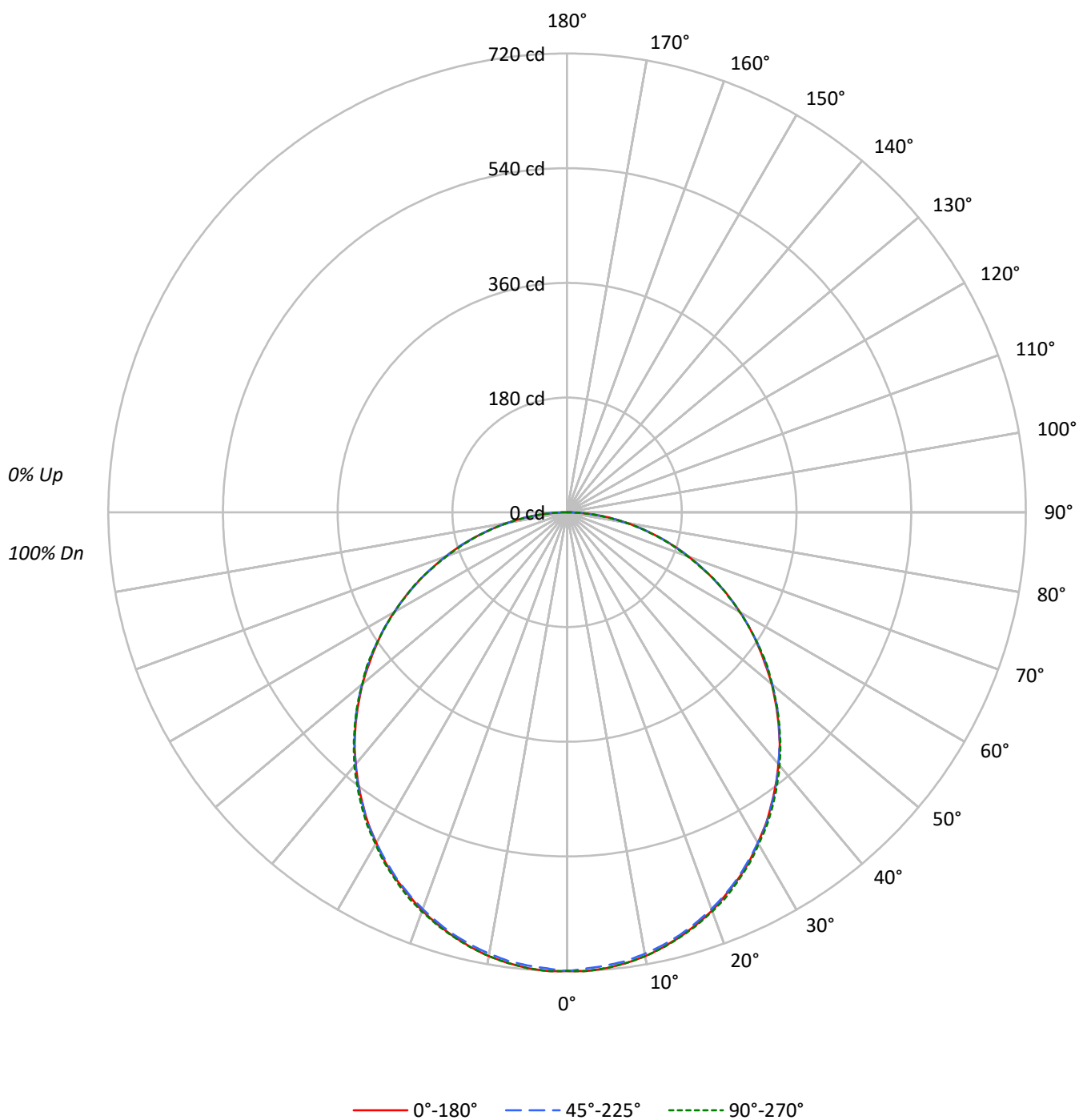
Input Watts (W): 23.157
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1937	1937	1937
5°	1939	1928	1939
10°	1932	1922	1932
15°	1919	1912	1921
20°	1905	1897	1908
25°	1885	1881	1891
30°	1860	1860	1868
35°	1837	1839	1848
40°	1812	1814	1824
45°	1785	1790	1792
50°	1755	1760	1757
55°	1719	1728	1726
60°	1686	1686	1686
65°	1646	1646	1655
70°	1594	1594	1579
75°	1539	1533	1525
80°	1468	1458	1447
85°	1380	1362	1321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.1	3.3
10°-20°	194.2	9.4
20°-30°	292.7	14.2
30°-40°	350.8	17.0
40°-50°	362.7	17.6
50°-60°	328.9	16.0
60°-70°	255.6	12.4
70°-80°	156.1	7.6
80°-90°	48.9	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°	555.0	27.0
0°-40°	905.8	44.0
0°-60°	1597.4	77.6
0°-90°	2058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	720	720	720	720	720	
5°	718	717	714	717	718	68
15°	689	689	686	690	690	194
25°	635	635	634	638	637	292
35°	559	560	560	562	562	350
45°	469	470	470	471	471	362
55°	366	368	368	368	368	328
65°	258	258	258	257	260	255
75°	148	148	147	147	147	157
85°	45	43	44	43	43	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	719.7	719.7	719.7	719.7	719.7
2.5°	720.4	719.7	716.4	719.7	720.4
5°	717.8	717.1	713.8	717.1	717.8
7.5°	713.1	713.1	709.9	713.1	713.1
10°	707.2	706.6	703.3	706.6	707.2
12.5°	698.7	698.7	695.4	698.7	699.3
15°	688.8	688.8	686.2	689.5	689.5
17.5°	677.6	678.3	675.0	678.9	678.9
20°	665.1	664.5	662.5	665.8	666.4
22.5°	650.0	650.6	648.7	652.6	653.3
25°	634.9	634.9	633.5	637.5	636.8
27.5°	618.4	618.4	616.4	619.7	620.4
30°	598.7	599.3	598.7	602.0	601.3
32.5°	580.3	580.9	580.9	582.2	582.9
35°	559.2	559.9	559.9	562.5	562.5
37.5°	538.1	538.1	538.8	540.8	540.8
40°	515.8	516.4	516.4	518.4	519.1
42.5°	494.1	492.8	493.4	495.4	495.4
45°	469.1	469.7	470.4	471.0	471.0
47.5°	444.1	445.4	446.0	446.7	446.0
50°	419.1	420.4	420.4	419.7	419.7
52.5°	392.1	395.4	394.7	394.7	396.0
55°	366.4	367.8	368.4	368.4	367.8
57.5°	340.8	342.1	340.8	341.4	340.1
60°	313.2	313.8	313.2	313.2	313.2
62.5°	286.2	286.8	285.5	285.5	285.5
65°	258.5	258.5	258.5	257.2	259.9
67.5°	229.6	230.9	230.9	231.6	228.9
70°	202.6	203.3	202.6	202.0	200.7
72.5°	175.7	176.3	177.0	174.3	173.7
75°	148.0	148.0	147.4	146.7	146.7
77.5°	121.1	121.1	121.1	119.7	119.7
80°	94.7	95.4	94.1	94.1	93.4
82.5°	69.1	69.1	69.1	68.4	67.1
85°	44.7	43.4	44.1	42.8	42.8
87.5°	20.4	20.4	20.4	19.1	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)