

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: P291547

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291547
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-L83050-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2083.0 lumens
Efficiency: N/A
Efficacy: 93.7 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

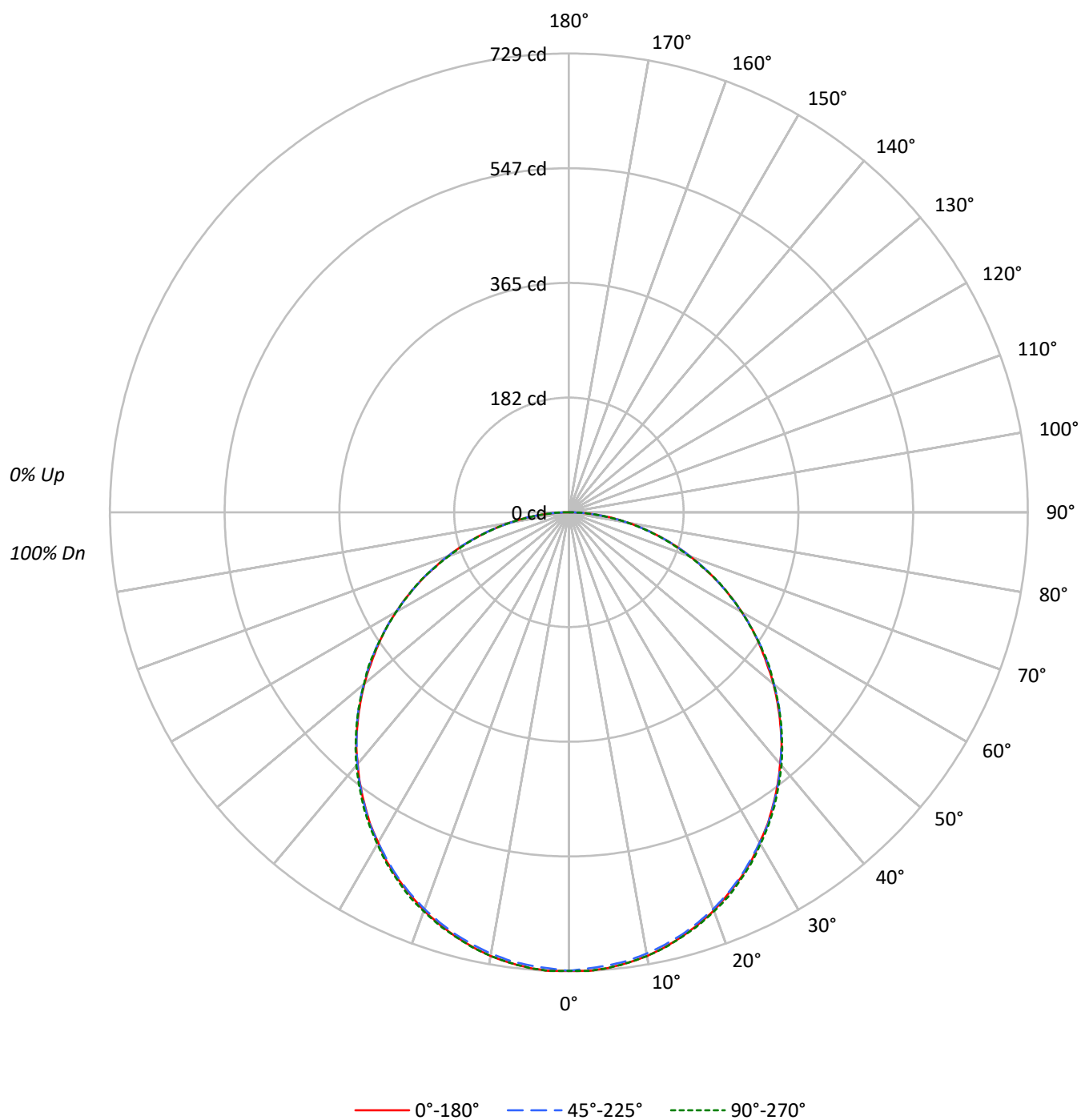
Input Watts (W): 22.227
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1960	1960	1960
5°	1962	1952	1962
10°	1956	1945	1956
15°	1942	1935	1944
20°	1928	1920	1932
25°	1908	1904	1914
30°	1883	1883	1891
35°	1859	1862	1870
40°	1834	1836	1846
45°	1807	1812	1815
50°	1776	1781	1778
55°	1740	1749	1746
60°	1706	1706	1706
65°	1666	1666	1675
70°	1614	1614	1598
75°	1557	1551	1544
80°	1486	1475	1466
85°	1399	1377	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.9	3.3
10°-20°	196.6	9.4
20°-30°	296.3	14.2
30°-40°	355.0	17.0
40°-50°	367.1	17.6
50°-60°	332.9	16.0
60°-70°	258.7	12.4
70°-80°	158.0	7.6
80°-90°	49.5	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°	561.7	27.0
0°-40°	916.8	44.0
0°-60°	1616.8	77.6
0°-90°	2083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2083.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	728	728	728	728	728	
5°	726	726	722	726	726	69
15°	697	697	694	698	698	197
25°	643	643	641	645	645	296
35°	566	567	567	569	569	354
45°	475	475	476	477	477	366
55°	371	372	373	373	372	332
65°	262	262	262	260	263	259
75°	150	150	149	148	148	158
85°	45	44	45	43	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	728.5	728.5	728.5	728.5	728.5
2.5°	729.1	728.5	725.1	728.5	729.1
5°	726.5	725.8	722.5	725.8	726.5
7.5°	721.8	721.8	718.5	721.8	721.8
10°	715.8	715.1	711.8	715.1	715.8
12.5°	707.2	707.2	703.8	707.2	707.8
15°	697.2	697.2	694.5	697.8	697.8
17.5°	685.9	686.5	683.2	687.2	687.2
20°	673.2	672.5	670.5	673.9	674.5
22.5°	657.9	658.5	656.6	660.5	661.2
25°	642.6	642.6	641.2	645.2	644.6
27.5°	625.9	625.9	623.9	627.3	627.9
30°	605.9	606.6	605.9	609.3	608.6
32.5°	587.3	588.0	588.0	589.3	590.0
35°	566.0	566.7	566.7	569.3	569.3
37.5°	544.7	544.7	545.4	547.3	547.3
40°	522.0	522.7	522.7	524.7	525.4
42.5°	500.1	498.7	499.4	501.4	501.4
45°	474.8	475.4	476.1	476.8	476.8
47.5°	449.5	450.8	451.5	452.1	451.5
50°	424.2	425.5	425.5	424.8	424.8
52.5°	396.9	400.2	399.5	399.5	400.9
55°	370.9	372.2	372.9	372.9	372.2
57.5°	344.9	346.3	344.9	345.6	344.3
60°	317.0	317.6	317.0	317.0	317.0
62.5°	289.7	290.3	289.0	289.0	289.0
65°	261.7	261.7	261.7	260.4	263.0
67.5°	232.4	233.7	233.7	234.4	231.7
70°	205.1	205.8	205.1	204.4	203.1
72.5°	177.8	178.5	179.1	176.5	175.8
75°	149.8	149.8	149.2	148.5	148.5
77.5°	122.5	122.5	122.5	121.2	121.2
80°	95.9	96.6	95.2	95.2	94.6
82.5°	69.9	69.9	69.9	69.3	67.9
85°	45.3	43.9	44.6	43.3	43.3
87.5°	20.6	20.6	20.6	19.3	22.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)