

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: P291696

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291696
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-L92765-W2A1-U-6500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.0 lumens
Efficiency: N/A
Efficacy: 89.9 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

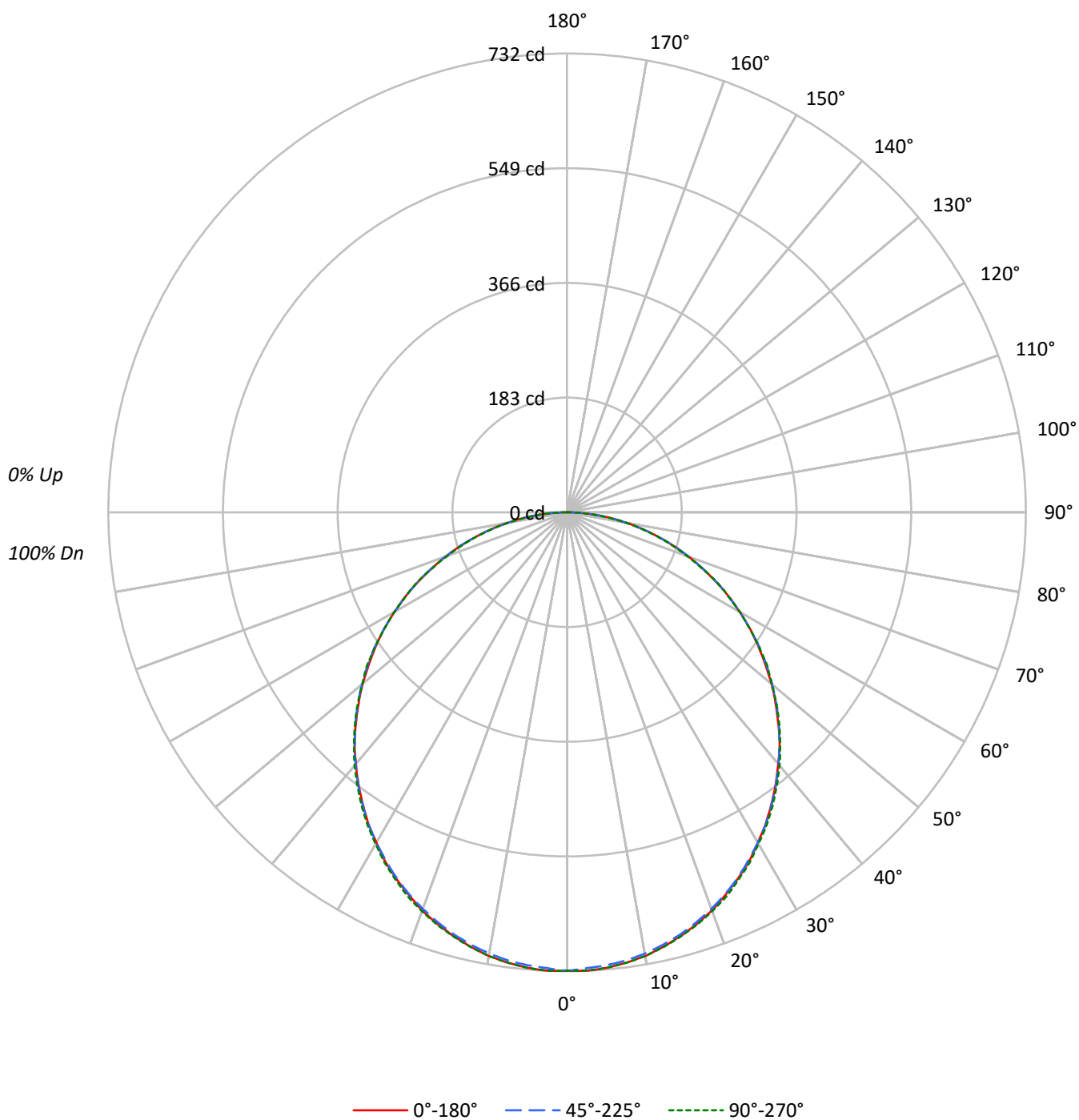
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1968	1968	1968
5°	1970	1959	1970
10°	1964	1953	1964
15°	1950	1942	1952
20°	1935	1928	1939
25°	1915	1911	1921
30°	1890	1890	1898
35°	1867	1869	1877
40°	1841	1843	1853
45°	1814	1819	1821
50°	1783	1788	1786
55°	1747	1756	1753
60°	1713	1713	1713
65°	1673	1673	1681
70°	1620	1620	1604
75°	1564	1556	1550
80°	1492	1481	1471
85°	1405	1383	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	3.3
10°-20°	197.4	9.4
20°-30°	297.4	14.2
30°-40°	356.4	17.0
40°-50°	368.5	17.6
50°-60°	334.2	16.0
60°-70°	259.7	12.4
70°-80°	158.6	7.6
80°-90°	49.6	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°	563.9	27.0
0°-40°	920.3	44.0
0°-60°	1623.0	77.6
0°-90°	2091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	731	731	731	731	731	
5°	729	729	725	729	729	69
15°	700	700	697	700	700	197
25°	645	645	644	648	647	297
35°	568	569	569	572	572	356
45°	477	477	478	479	479	368
55°	372	374	374	374	374	333
65°	263	263	263	261	264	260
75°	150	150	150	149	149	159
85°	46	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°	731.3	731.3	731.3	731.3	731.3
2.5°	731.9	731.3	727.9	731.3	731.9
5°	729.3	728.6	725.2	728.6	729.3
7.5°	724.6	724.6	721.2	724.6	724.6
10°	718.6	717.9	714.6	717.9	718.6
12.5°	709.9	709.9	706.5	709.9	710.5
15°	699.8	699.8	697.2	700.5	700.5
17.5°	688.5	689.2	685.8	689.8	689.8
20°	675.8	675.1	673.1	676.5	677.1
22.5°	660.4	661.1	659.1	663.1	663.8
25°	645.0	645.0	643.7	647.7	647.0
27.5°	628.3	628.3	626.3	629.7	630.3
30°	608.3	608.9	608.3	611.6	610.9
32.5°	589.6	590.2	590.2	591.6	592.2
35°	568.2	568.8	568.8	571.5	571.5
37.5°	546.8	546.8	547.4	549.5	549.5
40°	524.1	524.7	524.7	526.7	527.4
42.5°	502.0	500.7	501.3	503.3	503.3
45°	476.6	477.3	477.9	478.6	478.6
47.5°	451.2	452.5	453.2	453.9	453.2
50°	425.8	427.1	427.1	426.5	426.5
52.5°	398.4	401.7	401.1	401.1	402.4
55°	372.3	373.7	374.3	374.3	373.7
57.5°	346.2	347.6	346.2	346.9	345.6
60°	318.2	318.8	318.2	318.2	318.2
62.5°	290.8	291.4	290.1	290.1	290.1
65°	262.7	262.7	262.7	261.4	264.0
67.5°	233.3	234.6	234.6	235.3	232.6
70°	205.9	206.5	205.9	205.2	203.9
72.5°	178.5	179.1	179.8	177.1	176.5
75°	150.4	150.4	149.7	149.1	149.1
77.5°	123.0	123.0	123.0	121.7	121.7
80°	96.3	96.9	95.6	95.6	94.9
82.5°	70.2	70.2	70.2	69.5	68.2
85°	45.5	44.1	44.8	43.4	43.4
87.5°	20.7	20.7	20.7	19.4	22.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)