

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: P291591

Luminaire Tested: **14GR-LD5-28-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291591
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-L82765-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: 2080.0 lumens
Efficiency: N/A
Efficacy: 94.4 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

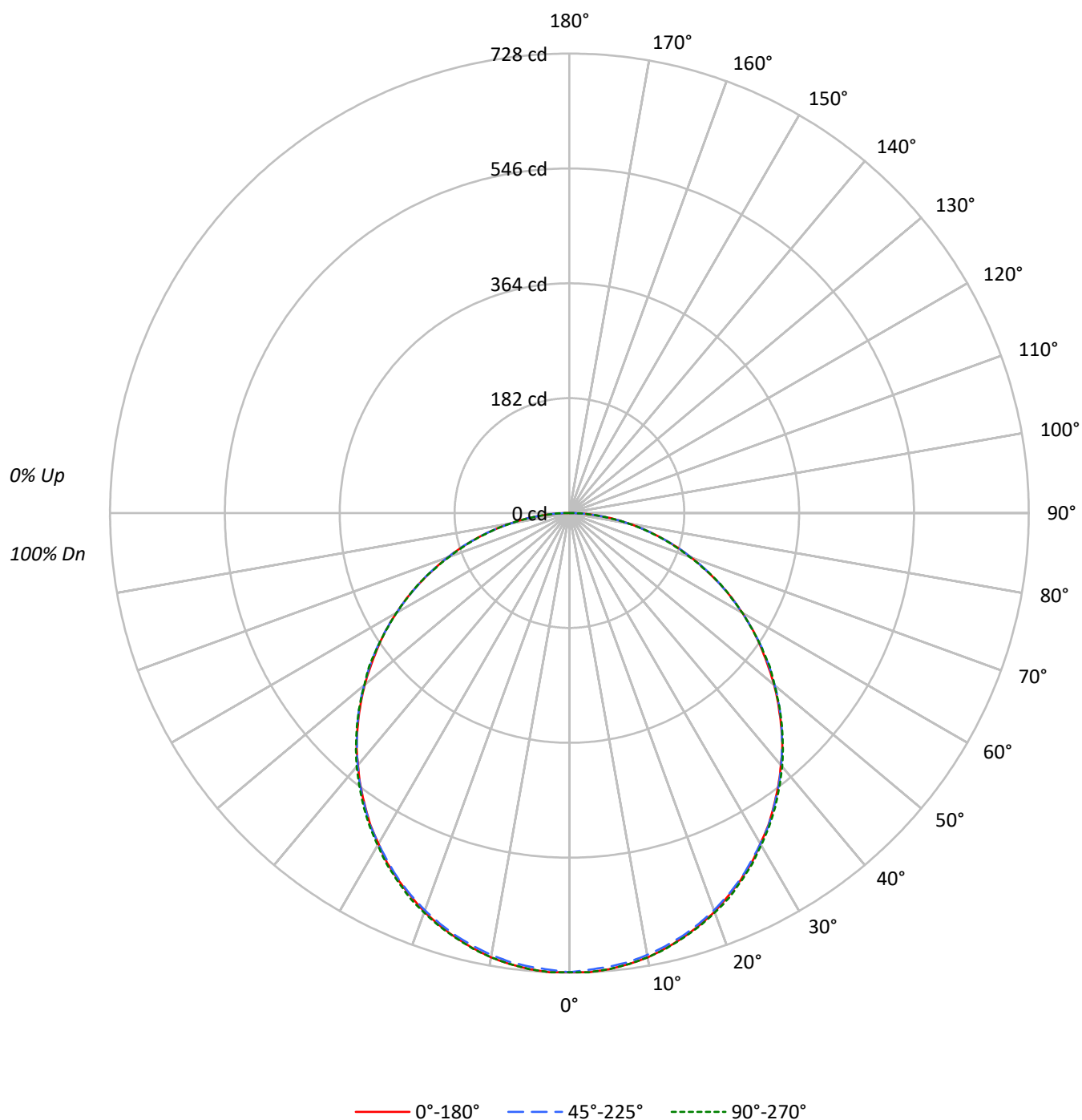
Input Watts (W): 22.041
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1957	1957	1957
5°	1959	1949	1959
10°	1953	1942	1953
15°	1940	1932	1941
20°	1925	1918	1929
25°	1905	1901	1911
30°	1880	1880	1888
35°	1857	1859	1868
40°	1831	1834	1843
45°	1804	1809	1812
50°	1773	1779	1776
55°	1738	1747	1744
60°	1703	1703	1703
65°	1664	1664	1672
70°	1611	1611	1596
75°	1555	1548	1542
80°	1483	1474	1463
85°	1396	1374	1334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	3.3
10°-20°	196.3	9.4
20°-30°	295.8	14.2
30°-40°	354.5	17.0
40°-50°	366.6	17.6
50°-60°	332.4	16.0
60°-70°	258.3	12.4
70°-80°	157.8	7.6
80°-90°	49.4	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°	560.9	27.0
0°-40°	915.5	44.0
0°-60°	1614.5	77.6
0°-90°	2080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2080.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	727	727	727	727	727	
5°	725	725	721	725	725	69
15°	696	696	694	697	697	196
25°	642	642	640	644	644	296
35°	565	566	566	568	568	354
45°	474	475	475	476	476	366
55°	370	372	372	372	372	331
65°	261	261	261	260	263	258
75°	150	150	149	148	148	158
85°	45	44	44	43	43	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	727.4	727.4	727.4	727.4	727.4
2.5°	728.1	727.4	724.1	727.4	728.1
5°	725.4	724.8	721.4	724.8	725.4
7.5°	720.8	720.8	717.4	720.8	720.8
10°	714.8	714.1	710.8	714.1	714.8
12.5°	706.1	706.1	702.8	706.1	706.8
15°	696.2	696.2	693.5	696.8	696.8
17.5°	684.9	685.5	682.2	686.2	686.2
20°	672.2	671.6	669.6	672.9	673.6
22.5°	656.9	657.6	655.6	659.6	660.3
25°	641.6	641.6	640.3	644.3	643.6
27.5°	625.0	625.0	623.0	626.4	627.0
30°	605.1	605.7	605.1	608.4	607.7
32.5°	586.5	587.1	587.1	588.5	589.1
35°	565.2	565.8	565.8	568.5	568.5
37.5°	543.9	543.9	544.6	546.6	546.6
40°	521.3	522.0	522.0	524.0	524.6
42.5°	499.4	498.0	498.7	500.7	500.7
45°	474.1	474.7	475.4	476.1	476.1
47.5°	448.8	450.1	450.8	451.5	450.8
50°	423.6	424.9	424.9	424.2	424.2
52.5°	396.3	399.6	398.9	398.9	400.3
55°	370.4	371.7	372.4	372.4	371.7
57.5°	344.4	345.8	344.4	345.1	343.8
60°	316.5	317.2	316.5	316.5	316.5
62.5°	289.2	289.9	288.6	288.6	288.6
65°	261.3	261.3	261.3	260.0	262.6
67.5°	232.1	233.4	233.4	234.1	231.4
70°	204.8	205.5	204.8	204.1	202.8
72.5°	177.5	178.2	178.9	176.2	175.5
75°	149.6	149.6	148.9	148.3	148.3
77.5°	122.3	122.3	122.3	121.0	121.0
80°	95.7	96.4	95.1	95.1	94.4
82.5°	69.8	69.8	69.8	69.2	67.8
85°	45.2	43.9	44.5	43.2	43.2
87.5°	20.6	20.6	20.6	19.3	21.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)