

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: P291600

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291600
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-LD5-32-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: 2361.0 lumens
Efficiency: N/A
Efficacy: 92.7 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

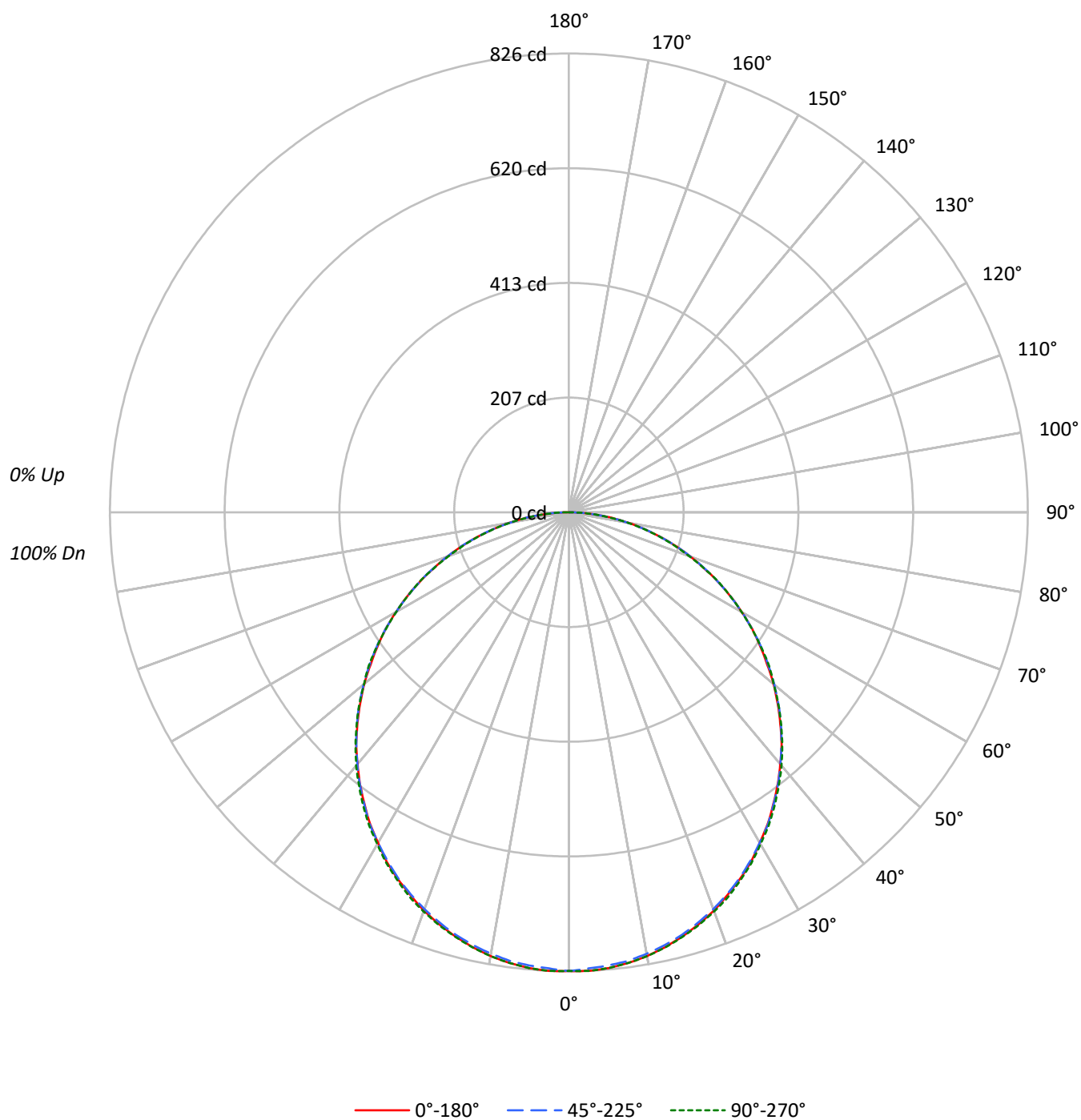
Input Watts (W): 25.482
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2222	2222	2222
5°	2224	2212	2224
10°	2217	2205	2217
15°	2201	2193	2204
20°	2185	2176	2190
25°	2162	2158	2169
30°	2134	2134	2143
35°	2107	2110	2120
40°	2079	2081	2092
45°	2048	2054	2057
50°	2013	2019	2016
55°	1972	1983	1979
60°	1934	1934	1934
65°	1889	1889	1898
70°	1829	1829	1811
75°	1765	1758	1750
80°	1684	1672	1661
85°	1584	1562	1516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.3
10°-20°	222.8	9.4
20°-30°	335.8	14.2
30°-40°	402.4	17.0
40°-50°	416.1	17.6
50°-60°	377.3	16.0
60°-70°	293.2	12.4
70°-80°	179.1	7.6
80°-90°	56.1	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°	636.7	27.0
0°-40°	1039.1	44.0
0°-60°	1832.6	77.6
0°-90°	2361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	826	826	826	826	826	
5°	823	823	819	823	823	78
15°	790	790	787	791	791	223
25°	728	728	727	731	731	336
35°	642	642	642	645	645	401
45°	538	539	540	540	540	415
55°	420	422	423	423	422	376
65°	297	297	297	295	298	293
75°	170	170	169	168	168	180
85°	51	50	51	49	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.7	825.7	825.7	825.7	825.7
2.5°	826.4	825.7	821.9	825.7	826.4
5°	823.4	822.7	818.9	822.7	823.4
7.5°	818.1	818.1	814.4	818.1	818.1
10°	811.3	810.6	806.8	810.6	811.3
12.5°	801.5	801.5	797.8	801.5	802.3
15°	790.2	790.2	787.2	791.0	791.0
17.5°	777.4	778.1	774.4	778.9	778.9
20°	763.0	762.3	760.0	763.8	764.6
22.5°	745.7	746.4	744.2	748.7	749.5
25°	728.3	728.3	726.8	731.3	730.6
27.5°	709.5	709.5	707.2	711.0	711.7
30°	686.8	687.6	686.8	690.6	689.8
32.5°	665.7	666.4	666.4	667.9	668.7
35°	641.5	642.3	642.3	645.3	645.3
37.5°	617.4	617.4	618.1	620.4	620.4
40°	591.7	592.5	592.5	594.7	595.5
42.5°	566.8	565.3	566.1	568.3	568.3
45°	538.1	538.9	539.6	540.4	540.4
47.5°	509.5	511.0	511.7	512.5	511.7
50°	480.8	482.3	482.3	481.5	481.5
52.5°	449.8	453.6	452.8	452.8	454.4
55°	420.4	421.9	422.7	422.7	421.9
57.5°	391.0	392.5	391.0	391.7	390.2
60°	359.3	360.0	359.3	359.3	359.3
62.5°	328.3	329.1	327.6	327.6	327.6
65°	296.6	296.6	296.6	295.1	298.1
67.5°	263.4	264.9	264.9	265.7	262.7
70°	232.5	233.2	232.5	231.7	230.2
72.5°	201.5	202.3	203.0	200.0	199.3
75°	169.8	169.8	169.1	168.3	168.3
77.5°	138.9	138.9	138.9	137.4	137.4
80°	108.7	109.4	107.9	107.9	107.2
82.5°	79.2	79.2	79.2	78.5	77.0
85°	51.3	49.8	50.6	49.1	49.1
87.5°	23.4	23.4	23.4	21.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)