

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: P291705

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291705
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-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: 2374.0 lumens
Efficiency: N/A
Efficacy: 88.3 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

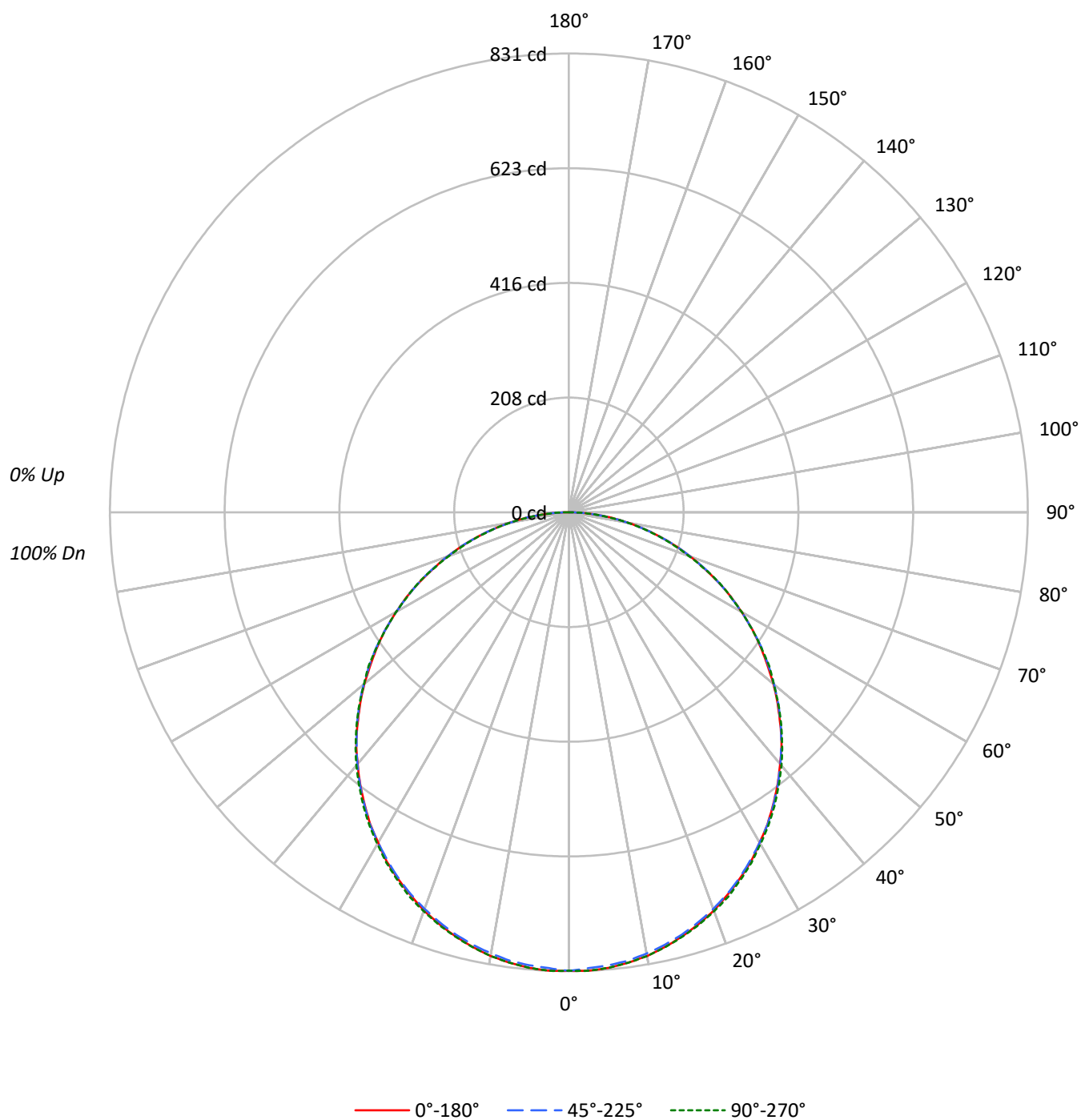
Input Watts (W): 26.877
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2234	2234	2234
5°	2237	2224	2237
10°	2229	2217	2229
15°	2214	2205	2216
20°	2197	2188	2202
25°	2174	2170	2181
30°	2146	2146	2155
35°	2119	2122	2132
40°	2090	2093	2103
45°	2059	2065	2068
50°	2024	2030	2027
55°	1983	1994	1990
60°	1944	1944	1944
65°	1899	1899	1909
70°	1839	1839	1821
75°	1776	1768	1759
80°	1694	1681	1671
85°	1593	1568	1522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	3.3
10°-20°	224.1	9.4
20°-30°	337.7	14.2
30°-40°	404.6	17.0
40°-50°	418.4	17.6
50°-60°	379.4	16.0
60°-70°	294.8	12.4
70°-80°	180.1	7.6
80°-90°	56.4	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°	640.2	27.0
0°-40°	1044.9	44.0
0°-60°	1842.7	77.6
0°-90°	2374.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2374.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	828	827	823	827	828	79
15°	795	795	792	795	795	224
25°	732	732	731	735	735	337
35°	645	646	646	649	649	404
45°	541	542	543	543	543	417
55°	423	424	425	425	424	378
65°	298	298	298	297	300	295
75°	171	171	170	169	169	181
85°	52	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°	830.2	830.2	830.2	830.2	830.2
2.5°	831.0	830.2	826.4	830.2	831.0
5°	828.0	827.2	823.4	827.2	828.0
7.5°	822.6	822.6	818.9	822.6	822.6
10°	815.8	815.1	811.3	815.1	815.8
12.5°	806.0	806.0	802.2	806.0	806.7
15°	794.6	794.6	791.5	795.3	795.3
17.5°	781.7	782.4	778.6	783.2	783.2
20°	767.2	766.5	764.2	768.0	768.8
22.5°	749.8	750.6	748.3	752.8	753.6
25°	732.3	732.3	730.8	735.4	734.6
27.5°	713.4	713.4	711.1	714.9	715.6
30°	690.6	691.4	690.6	694.4	693.6
32.5°	669.3	670.1	670.1	671.6	672.4
35°	645.1	645.8	645.8	648.9	648.9
37.5°	620.8	620.8	621.5	623.8	623.8
40°	595.0	595.7	595.7	598.0	598.8
42.5°	569.9	568.4	569.2	571.5	571.5
45°	541.1	541.9	542.6	543.4	543.4
47.5°	512.3	513.8	514.5	515.3	514.5
50°	483.4	484.9	484.9	484.2	484.2
52.5°	452.3	456.1	455.3	455.3	456.9
55°	422.7	424.2	425.0	425.0	424.2
57.5°	393.1	394.6	393.1	393.9	392.4
60°	361.2	362.0	361.2	361.2	361.2
62.5°	330.1	330.9	329.4	329.4	329.4
65°	298.2	298.2	298.2	296.7	299.8
67.5°	264.9	266.4	266.4	267.1	264.1
70°	233.7	234.5	233.7	233.0	231.5
72.5°	202.6	203.4	204.1	201.1	200.3
75°	170.8	170.8	170.0	169.2	169.2
77.5°	139.6	139.6	139.6	138.1	138.1
80°	109.3	110.0	108.5	108.5	107.8
82.5°	79.7	79.7	79.7	78.9	77.4
85°	51.6	50.1	50.8	49.3	49.3
87.5°	23.5	23.5	23.5	22.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)