

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: P291704

Luminaire Tested: **14GR-LD5-32-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291704
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-5700K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2358.0 lumens
Efficiency: N/A
Efficacy: 89.3 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

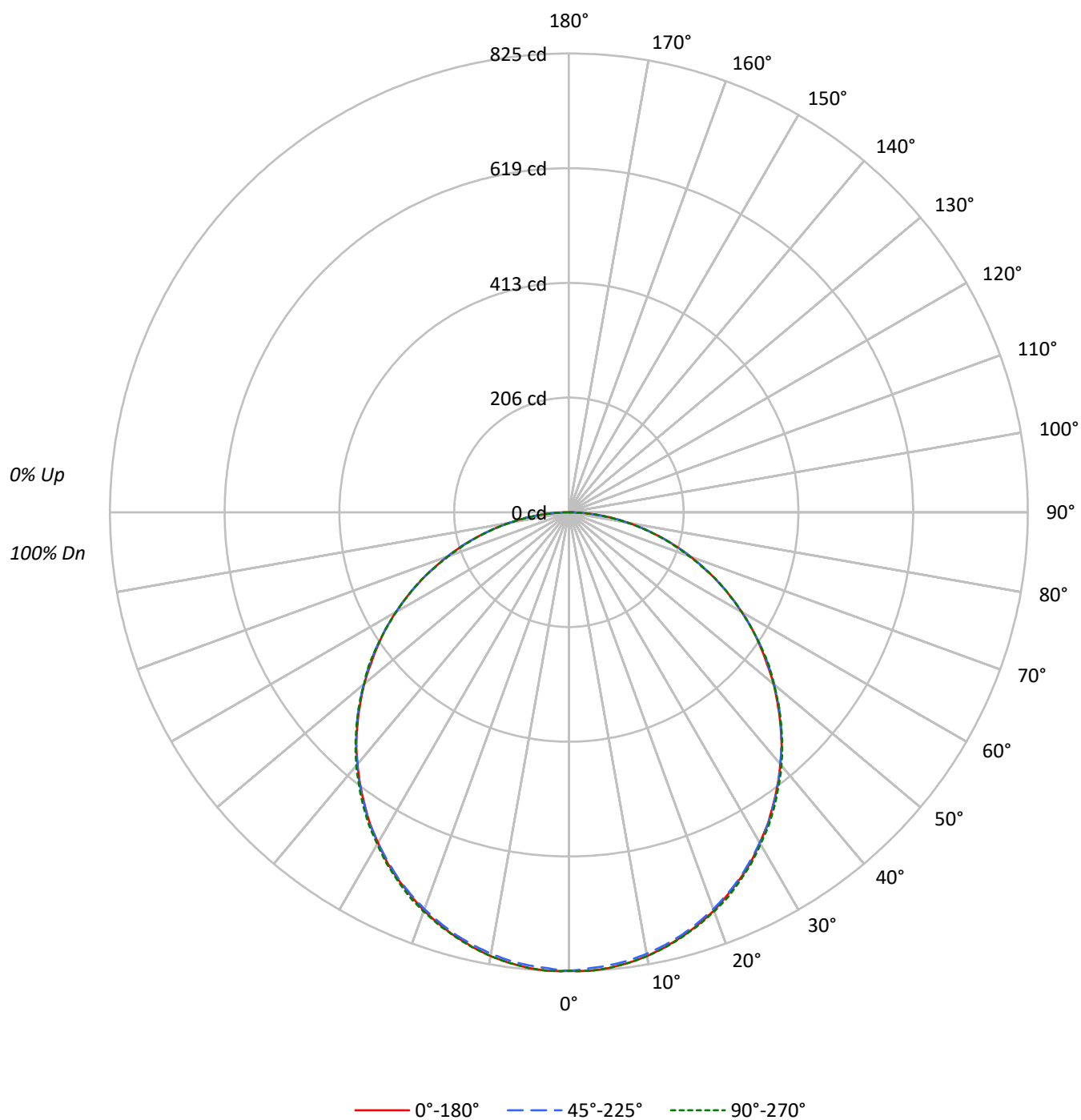
Input Watts (W): 26.412
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2219	2219	2219
5°	2222	2209	2222
10°	2214	2202	2214
15°	2199	2190	2201
20°	2182	2174	2187
25°	2160	2155	2167
30°	2131	2131	2141
35°	2105	2107	2117
40°	2076	2079	2089
45°	2045	2051	2054
50°	2010	2017	2013
55°	1970	1980	1977
60°	1931	1931	1931
65°	1886	1886	1896
70°	1827	1827	1809
75°	1763	1755	1748
80°	1681	1671	1658
85°	1584	1559	1513



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.0	3.3
10°-20°	222.6	9.4
20°-30°	335.4	14.2
30°-40°	401.9	17.0
40°-50°	415.6	17.6
50°-60°	376.9	16.0
60°-70°	292.8	12.4
70°-80°	178.9	7.6
80°-90°	56.0	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°	635.9	27.0
0°-40°	1037.8	44.0
0°-60°	1830.3	77.6
0°-90°	2358.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2358.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	822	822	818	822	822	78
15°	789	789	786	790	790	223
25°	727	727	726	730	730	335
35°	641	642	642	644	644	401
45°	537	538	539	540	540	415
55°	420	421	422	422	421	376
65°	296	296	296	295	298	293
75°	170	170	169	168	168	179
85°	51	50	50	49	49	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	824.6	824.6	824.6	824.6	824.6
2.5°	825.4	824.6	820.9	824.6	825.4
5°	822.4	821.6	817.9	821.6	822.4
7.5°	817.1	817.1	813.3	817.1	817.1
10°	810.3	809.6	805.8	809.6	810.3
12.5°	800.5	800.5	796.7	800.5	801.3
15°	789.2	789.2	786.2	790.0	790.0
17.5°	776.4	777.2	773.4	777.9	777.9
20°	762.1	761.3	759.1	762.8	763.6
22.5°	744.7	745.5	743.2	747.8	748.5
25°	727.4	727.4	725.9	730.4	729.7
27.5°	708.6	708.6	706.3	710.1	710.8
30°	685.9	686.7	685.9	689.7	689.0
32.5°	664.8	665.6	665.6	667.1	667.9
35°	640.7	641.5	641.5	644.5	644.5
37.5°	616.6	616.6	617.3	619.6	619.6
40°	591.0	591.7	591.7	594.0	594.7
42.5°	566.1	564.6	565.3	567.6	567.6
45°	537.4	538.2	539.0	539.7	539.7
47.5°	508.8	510.3	511.1	511.8	511.1
50°	480.2	481.7	481.7	480.9	480.9
52.5°	449.3	453.0	452.3	452.3	453.8
55°	419.9	421.4	422.1	422.1	421.4
57.5°	390.5	392.0	390.5	391.2	389.7
60°	358.8	359.6	358.8	358.8	358.8
62.5°	327.9	328.6	327.1	327.1	327.1
65°	296.2	296.2	296.2	294.7	297.7
67.5°	263.1	264.6	264.6	265.3	262.3
70°	232.2	232.9	232.2	231.4	229.9
72.5°	201.3	202.0	202.8	199.8	199.0
75°	169.6	169.6	168.8	168.1	168.1
77.5°	138.7	138.7	138.7	137.2	137.2
80°	108.5	109.3	107.8	107.8	107.0
82.5°	79.1	79.1	79.1	78.4	76.9
85°	51.3	49.7	50.5	49.0	49.0
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)