

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: P291623

Luminaire Tested: **14GR-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291623
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-LD5-40-FGW080-UNV-L82765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3253.0 lumens
Efficiency: N/A
Efficacy: 94.0 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

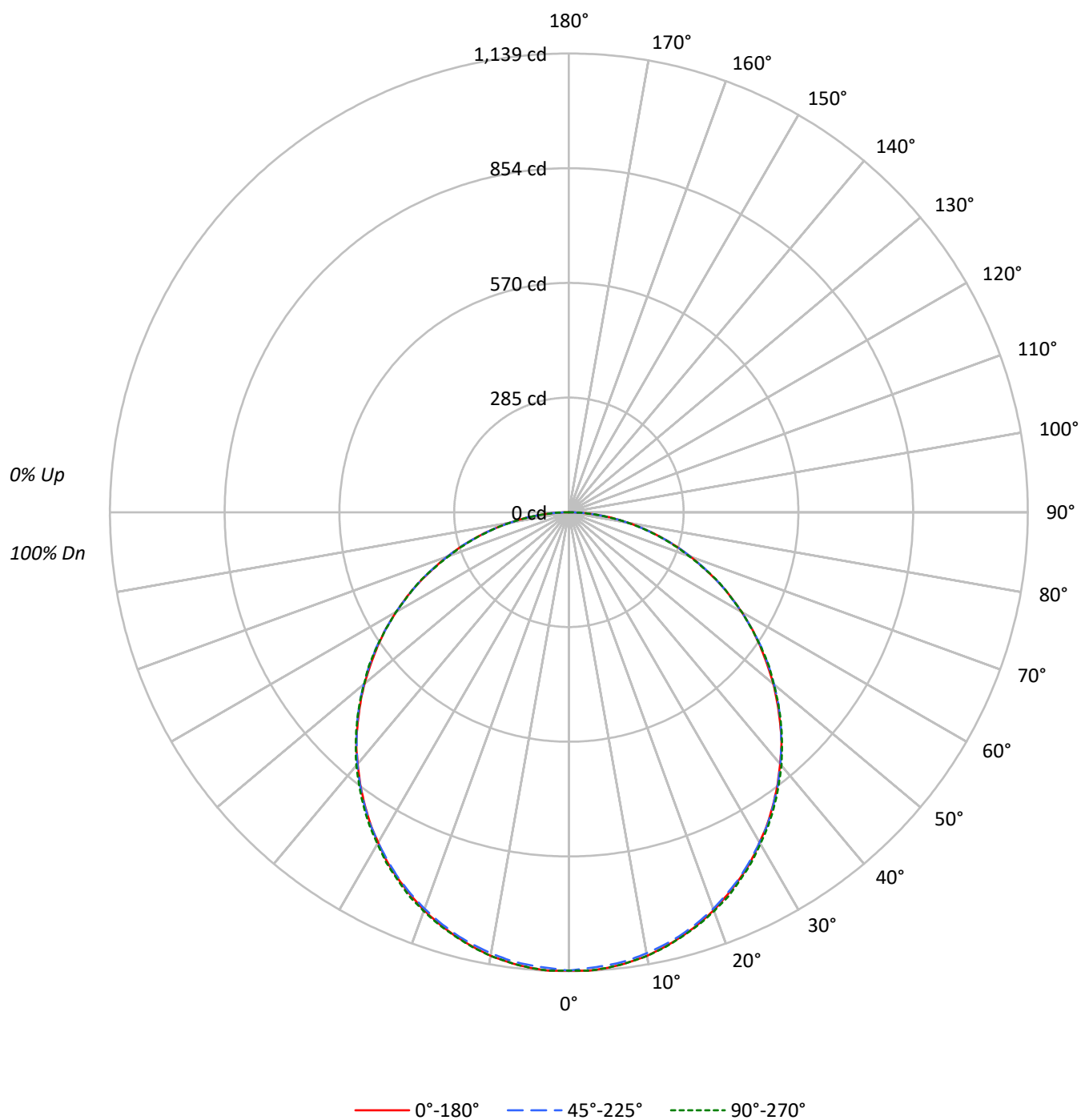
Input Watts (W): 34.596
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3061	3061	3061
5°	3065	3048	3065
10°	3055	3037	3055
15°	3033	3022	3036
20°	3011	2999	3017
25°	2980	2973	2989
30°	2940	2940	2953
35°	2904	2907	2921
40°	2864	2868	2882
45°	2821	2829	2834
50°	2773	2782	2777
55°	2717	2732	2727
60°	2664	2664	2664
65°	2602	2602	2616
70°	2520	2520	2496
75°	2433	2421	2411
80°	2320	2304	2289
85°	2183	2152	2087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.3
10°-20°	307.0	9.4
20°-30°	462.7	14.2
30°-40°	554.5	17.0
40°-50°	573.3	17.6
50°-60°	519.9	16.0
60°-70°	404.0	12.4
70°-80°	246.8	7.6
80°-90°	77.2	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°	877.3	27.0
0°-40°	1431.7	44.0
0°-60°	2525.0	77.6
0°-90°	3253.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3253.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1134	1134	1128	1134	1134	108
15°	1089	1089	1085	1090	1090	307
25°	1004	1004	1001	1008	1007	462
35°	884	885	885	889	889	553
45°	741	742	744	745	745	572
55°	579	581	582	582	581	518
65°	409	409	409	407	411	404
75°	234	234	233	232	232	247
85°	71	69	70	68	68	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1137.6	1137.6	1137.6	1137.6	1137.6
2.5°	1138.7	1137.6	1132.4	1137.6	1138.7
5°	1134.5	1133.5	1128.3	1133.5	1134.5
7.5°	1127.2	1127.2	1122.0	1127.2	1127.2
10°	1117.9	1116.8	1111.6	1116.8	1117.9
12.5°	1104.4	1104.4	1099.2	1104.4	1105.4
15°	1088.8	1088.8	1084.6	1089.8	1089.8
17.5°	1071.1	1072.1	1066.9	1073.2	1073.2
20°	1051.3	1050.3	1047.2	1052.4	1053.4
22.5°	1027.4	1028.5	1025.3	1031.6	1032.6
25°	1003.5	1003.5	1001.4	1007.7	1006.6
27.5°	977.5	977.5	974.4	979.6	980.6
30°	946.3	947.3	946.3	951.5	950.5
32.5°	917.2	918.2	918.2	920.3	921.3
35°	883.9	884.9	884.9	889.1	889.1
37.5°	850.6	850.6	851.7	854.8	854.8
40°	815.3	816.3	816.3	819.4	820.5
42.5°	781.0	778.9	779.9	783.0	783.0
45°	741.4	742.5	743.5	744.6	744.6
47.5°	701.9	704.0	705.0	706.1	705.0
50°	662.4	664.5	664.5	663.4	663.4
52.5°	619.8	625.0	623.9	623.9	626.0
55°	579.2	581.3	582.3	582.3	581.3
57.5°	538.7	540.7	538.7	539.7	537.6
60°	495.0	496.0	495.0	495.0	495.0
62.5°	452.4	453.4	451.3	451.3	451.3
65°	408.7	408.7	408.7	406.6	410.8
67.5°	362.9	365.0	365.0	366.0	361.9
70°	320.3	321.3	320.3	319.2	317.2
72.5°	277.7	278.7	279.7	275.6	274.5
75°	234.0	234.0	232.9	231.9	231.9
77.5°	191.3	191.3	191.3	189.3	189.3
80°	149.7	150.8	148.7	148.7	147.7
82.5°	109.2	109.2	109.2	108.1	106.1
85°	70.7	68.6	69.7	67.6	67.6
87.5°	32.2	32.2	32.2	30.2	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)