

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: P291628

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291628
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-LD5-43-FGW080-UNV-L82765-W2A1-U-3500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3259.0 lumens
Efficiency: N/A
Efficacy: 88.7 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

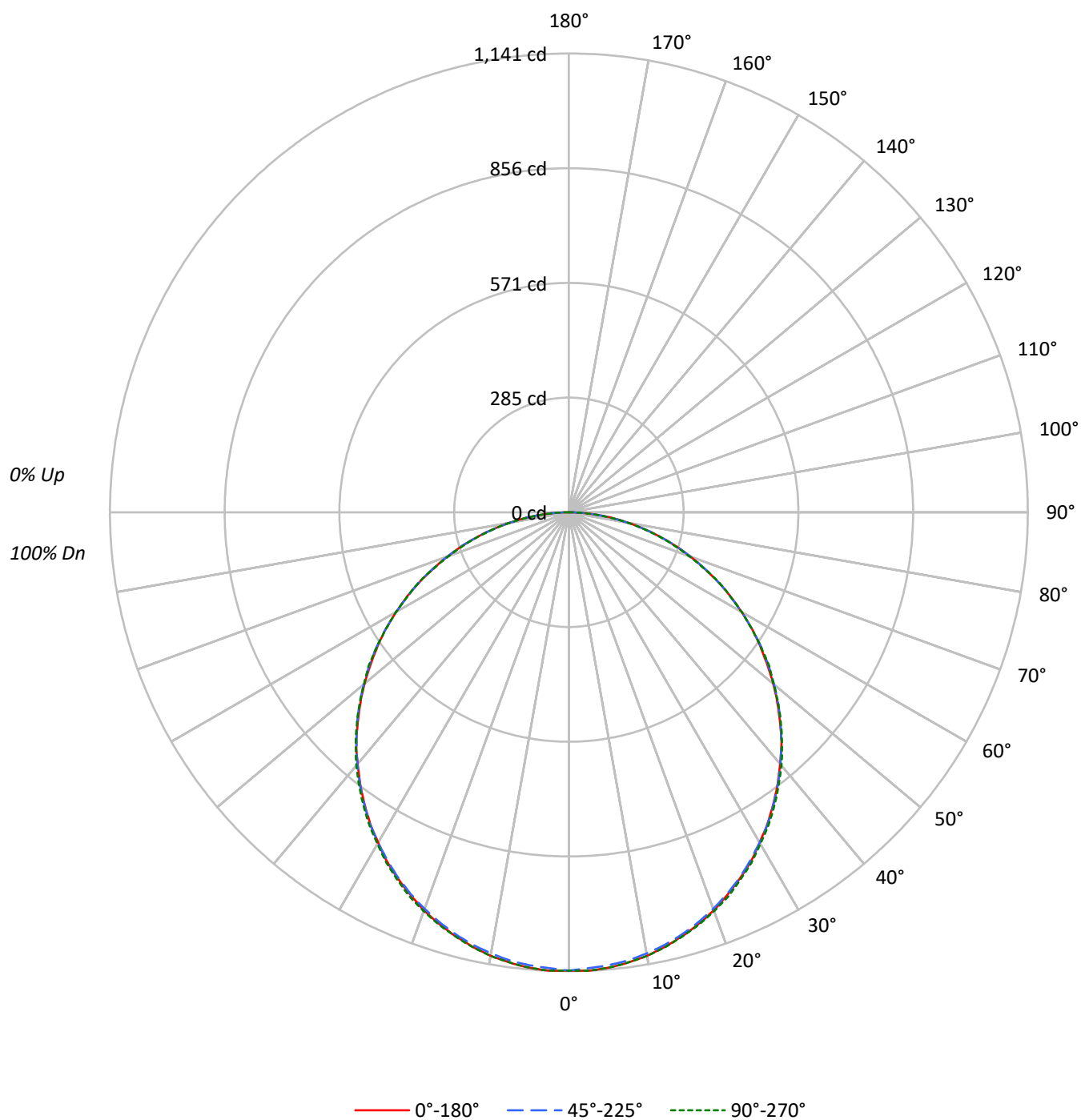
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3067	3067	3067
5°	3070	3054	3070
10°	3060	3043	3060
15°	3039	3027	3042
20°	3016	3004	3022
25°	2985	2979	2994
30°	2946	2946	2959
35°	2909	2913	2926
40°	2869	2873	2888
45°	2827	2835	2839
50°	2778	2787	2783
55°	2723	2737	2732
60°	2669	2669	2669
65°	2607	2607	2620
70°	2525	2525	2500
75°	2437	2427	2415
80°	2325	2309	2292
85°	2186	2155	2090



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.8	3.3
10°-20°	307.6	9.4
20°-30°	463.5	14.2
30°-40°	555.5	17.0
40°-50°	574.4	17.6
50°-60°	520.8	16.0
60°-70°	404.8	12.4
70°-80°	247.2	7.6
80°-90°	77.4	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°	878.9	27.0
0°-40°	1434.4	44.0
0°-60°	2529.6	77.6
0°-90°	3259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1140	1140	1140	1140	1140	
5°	1137	1136	1130	1136	1137	108
15°	1091	1091	1087	1092	1092	308
25°	1005	1005	1003	1010	1008	463
35°	886	887	887	891	891	554
45°	743	744	745	746	746	573
55°	580	582	583	583	582	519
65°	409	409	409	407	412	405
75°	234	234	233	232	232	248
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°	1139.7	1139.7	1139.7	1139.7	1139.7
2.5°	1140.8	1139.7	1134.5	1139.7	1140.8
5°	1136.6	1135.6	1130.4	1135.6	1136.6
7.5°	1129.3	1129.3	1124.1	1129.3	1129.3
10°	1119.9	1118.9	1113.7	1118.9	1119.9
12.5°	1106.4	1106.4	1101.2	1106.4	1107.4
15°	1090.8	1090.8	1086.6	1091.8	1091.8
17.5°	1073.1	1074.1	1068.9	1075.1	1075.1
20°	1053.3	1052.2	1049.1	1054.3	1055.4
22.5°	1029.3	1030.3	1027.2	1033.5	1034.5
25°	1005.3	1005.3	1003.3	1009.5	1008.5
27.5°	979.3	979.3	976.2	981.4	982.4
30°	948.0	949.1	948.0	953.3	952.2
32.5°	918.9	919.9	919.9	922.0	923.0
35°	885.5	886.6	886.6	890.7	890.7
37.5°	852.2	852.2	853.2	856.4	856.4
40°	816.8	817.8	817.8	820.9	822.0
42.5°	782.4	780.3	781.4	784.5	784.5
45°	742.8	743.9	744.9	745.9	745.9
47.5°	703.2	705.3	706.3	707.4	706.3
50°	663.6	665.7	665.7	664.7	664.7
52.5°	620.9	626.1	625.1	625.1	627.2
55°	580.3	582.4	583.4	583.4	582.4
57.5°	539.7	541.7	539.7	540.7	538.6
60°	495.9	496.9	495.9	495.9	495.9
62.5°	453.2	454.2	452.1	452.1	452.1
65°	409.4	409.4	409.4	407.3	411.5
67.5°	363.6	365.7	365.7	366.7	362.5
70°	320.9	321.9	320.9	319.8	317.8
72.5°	278.2	279.2	280.2	276.1	275.0
75°	234.4	234.4	233.4	232.3	232.3
77.5°	191.7	191.7	191.7	189.6	189.6
80°	150.0	151.1	149.0	149.0	147.9
82.5°	109.4	109.4	109.4	108.3	106.3
85°	70.8	68.8	69.8	67.7	67.7
87.5°	32.3	32.3	32.3	30.2	34.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)