

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: P291730

Luminaire Tested: **14GR-LD5-43-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291730
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-L92765-W2A1-U-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3132.0 lumens
Efficiency: N/A
Efficacy: 83.4 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

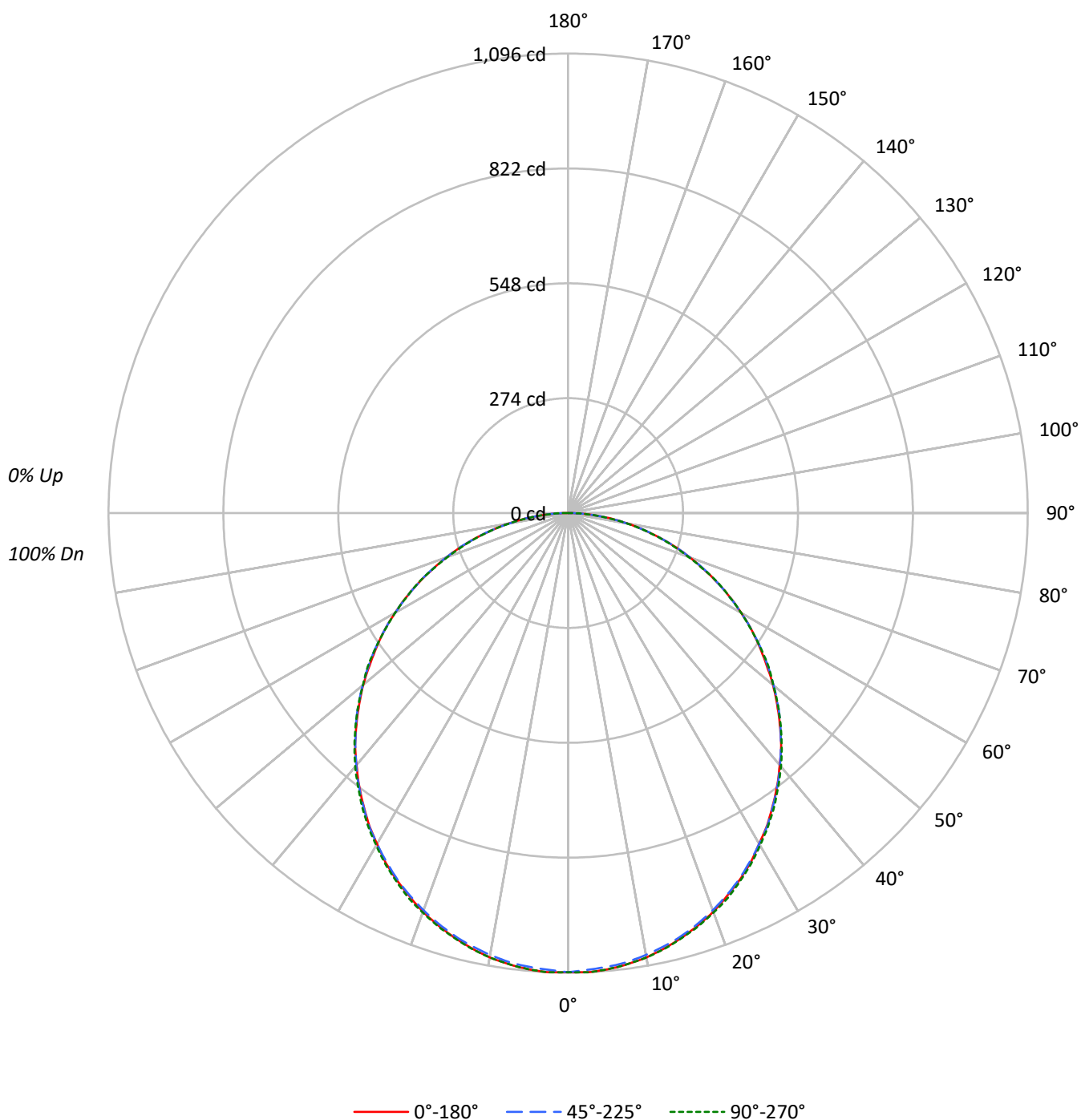
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2947	2947	2947
5°	2951	2934	2951
10°	2941	2925	2941
15°	2920	2909	2923
20°	2899	2887	2904
25°	2869	2863	2878
30°	2831	2831	2843
35°	2796	2799	2812
40°	2757	2761	2775
45°	2717	2724	2728
50°	2670	2678	2674
55°	2616	2631	2626
60°	2565	2565	2565
65°	2506	2506	2518
70°	2426	2426	2403
75°	2342	2332	2322
80°	2235	2219	2204
85°	2103	2072	2010



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	3.3
10°-20°	295.6	9.4
20°-30°	445.5	14.2
30°-40°	533.8	17.0
40°-50°	552.0	17.6
50°-60°	500.5	16.0
60°-70°	389.0	12.4
70°-80°	237.6	7.6
80°-90°	74.4	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°	844.6	27.0
0°-40°	1378.5	44.0
0°-60°	2431.0	77.6
0°-90°	3132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1092	1091	1086	1091	1092	104
15°	1048	1048	1044	1049	1049	296
25°	966	966	964	970	969	445
35°	851	852	852	856	856	533
45°	714	715	716	717	717	551
55°	558	560	561	561	560	499
65°	394	394	394	392	396	389
75°	225	225	224	223	223	238
85°	68	66	67	65	65	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1095.3	1095.3	1095.3	1095.3	1095.3
2.5°	1096.3	1095.3	1090.3	1095.3	1096.3
5°	1092.3	1091.3	1086.3	1091.3	1092.3
7.5°	1085.3	1085.3	1080.3	1085.3	1085.3
10°	1076.3	1075.3	1070.3	1075.3	1076.3
12.5°	1063.3	1063.3	1058.3	1063.3	1064.3
15°	1048.3	1048.3	1044.3	1049.3	1049.3
17.5°	1031.2	1032.2	1027.2	1033.2	1033.2
20°	1012.2	1011.2	1008.2	1013.2	1014.2
22.5°	989.2	990.2	987.2	993.2	994.2
25°	966.2	966.2	964.2	970.2	969.2
27.5°	941.1	941.1	938.1	943.1	944.1
30°	911.1	912.1	911.1	916.1	915.1
32.5°	883.1	884.1	884.1	886.1	887.1
35°	851.0	852.0	852.0	856.0	856.0
37.5°	819.0	819.0	820.0	823.0	823.0
40°	784.9	785.9	785.9	789.0	790.0
42.5°	751.9	749.9	750.9	753.9	753.9
45°	713.9	714.9	715.9	716.9	716.9
47.5°	675.8	677.8	678.8	679.8	678.8
50°	637.8	639.8	639.8	638.8	638.8
52.5°	596.7	601.7	600.7	600.7	602.7
55°	557.7	559.7	560.7	560.7	559.7
57.5°	518.6	520.6	518.6	519.6	517.6
60°	476.6	477.6	476.6	476.6	476.6
62.5°	435.5	436.5	434.5	434.5	434.5
65°	393.5	393.5	393.5	391.5	395.5
67.5°	349.4	351.4	351.4	352.4	348.4
70°	308.4	309.4	308.4	307.4	305.4
72.5°	267.3	268.3	269.3	265.3	264.3
75°	225.3	225.3	224.3	223.3	223.3
77.5°	184.2	184.2	184.2	182.2	182.2
80°	144.2	145.2	143.2	143.2	142.2
82.5°	105.1	105.1	105.1	104.1	102.1
85°	68.1	66.1	67.1	65.1	65.1
87.5°	31.0	31.0	31.0	29.0	33.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)