

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: P291559

Luminaire Tested: **14GR-LD5-36-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291559
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-LD5-36-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2935.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

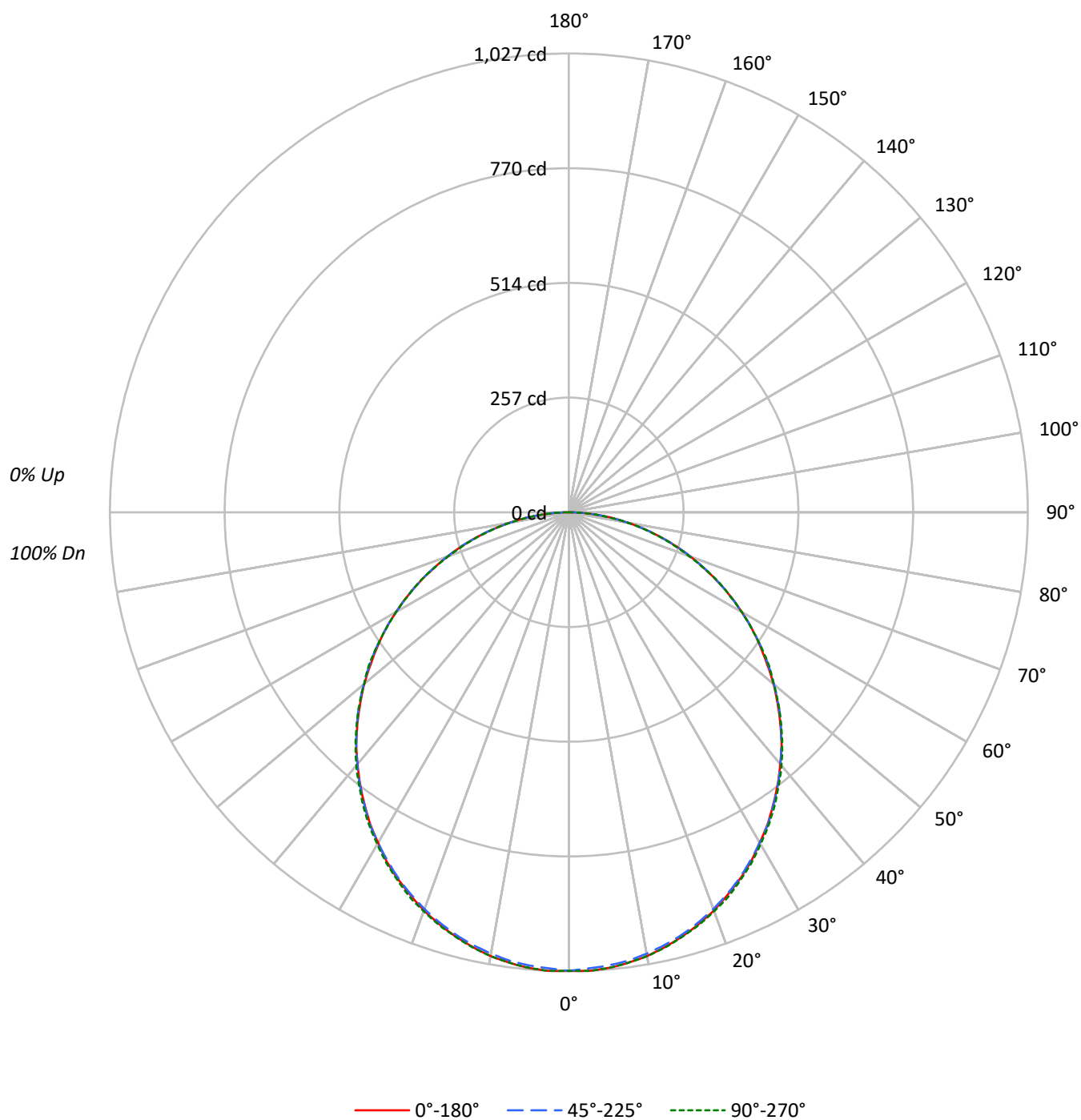
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2762	2762	2762
5°	2765	2750	2765
10°	2756	2741	2756
15°	2737	2726	2739
20°	2716	2706	2722
25°	2688	2683	2697
30°	2653	2653	2664
35°	2620	2623	2635
40°	2584	2587	2601
45°	2546	2553	2557
50°	2502	2510	2506
55°	2452	2465	2461
60°	2404	2404	2404
65°	2348	2348	2360
70°	2274	2274	2252
75°	2195	2185	2175
80°	2094	2080	2064
85°	1970	1942	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.1	3.3
10°-20°	277.0	9.4
20°-30°	417.4	14.2
30°-40°	500.3	17.0
40°-50°	517.3	17.6
50°-60°	469.1	16.0
60°-70°	364.5	12.4
70°-80°	222.6	7.6
80°-90°	69.7	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°	791.5	27.0
0°-40°	1291.8	44.0
0°-60°	2278.1	77.6
0°-90°	2935.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2935.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1026	1026	1026	1026	1026	
5°	1024	1023	1018	1023	1024	97
15°	982	982	979	983	983	277
25°	905	905	904	909	908	417
35°	798	798	798	802	802	499
45°	669	670	671	672	672	516
55°	523	524	525	525	524	467
65°	369	369	369	367	371	364
75°	211	211	210	209	209	223
85°	64	62	63	61	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.4	1026.4	1026.4	1026.4	1026.4
2.5°	1027.4	1026.4	1021.7	1026.4	1027.4
5°	1023.6	1022.7	1018.0	1022.7	1023.6
7.5°	1017.0	1017.0	1012.4	1017.0	1017.0
10°	1008.6	1007.7	1003.0	1007.7	1008.6
12.5°	996.4	996.4	991.7	996.4	997.3
15°	982.3	982.3	978.6	983.3	983.3
17.5°	966.4	967.3	962.6	968.3	968.3
20°	948.6	947.6	944.8	949.5	950.4
22.5°	927.0	927.9	925.1	930.7	931.7
25°	905.4	905.4	903.5	909.1	908.2
27.5°	881.9	881.9	879.1	883.8	884.8
30°	853.8	854.7	853.8	858.5	857.5
32.5°	827.5	828.5	828.5	830.3	831.3
35°	797.5	798.4	798.4	802.2	802.2
37.5°	767.5	767.5	768.4	771.2	771.2
40°	735.6	736.5	736.5	739.3	740.3
42.5°	704.6	702.7	703.7	706.5	706.5
45°	669.0	669.9	670.8	671.8	671.8
47.5°	633.3	635.2	636.1	637.1	636.1
50°	597.7	599.5	599.5	598.6	598.6
52.5°	559.2	563.9	562.9	562.9	564.8
55°	522.6	524.5	525.4	525.4	524.5
57.5°	486.0	487.9	486.0	486.9	485.1
60°	446.6	447.5	446.6	446.6	446.6
62.5°	408.1	409.1	407.2	407.2	407.2
65°	368.7	368.7	368.7	366.8	370.6
67.5°	327.4	329.3	329.3	330.3	326.5
70°	289.0	289.9	289.0	288.0	286.2
72.5°	250.5	251.4	252.4	248.6	247.7
75°	211.1	211.1	210.2	209.2	209.2
77.5°	172.6	172.6	172.6	170.8	170.8
80°	135.1	136.0	134.2	134.2	133.2
82.5°	98.5	98.5	98.5	97.6	95.7
85°	63.8	61.9	62.9	61.0	61.0
87.5°	29.1	29.1	29.1	27.2	31.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)