

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: P292885

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-26)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2669.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.24 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

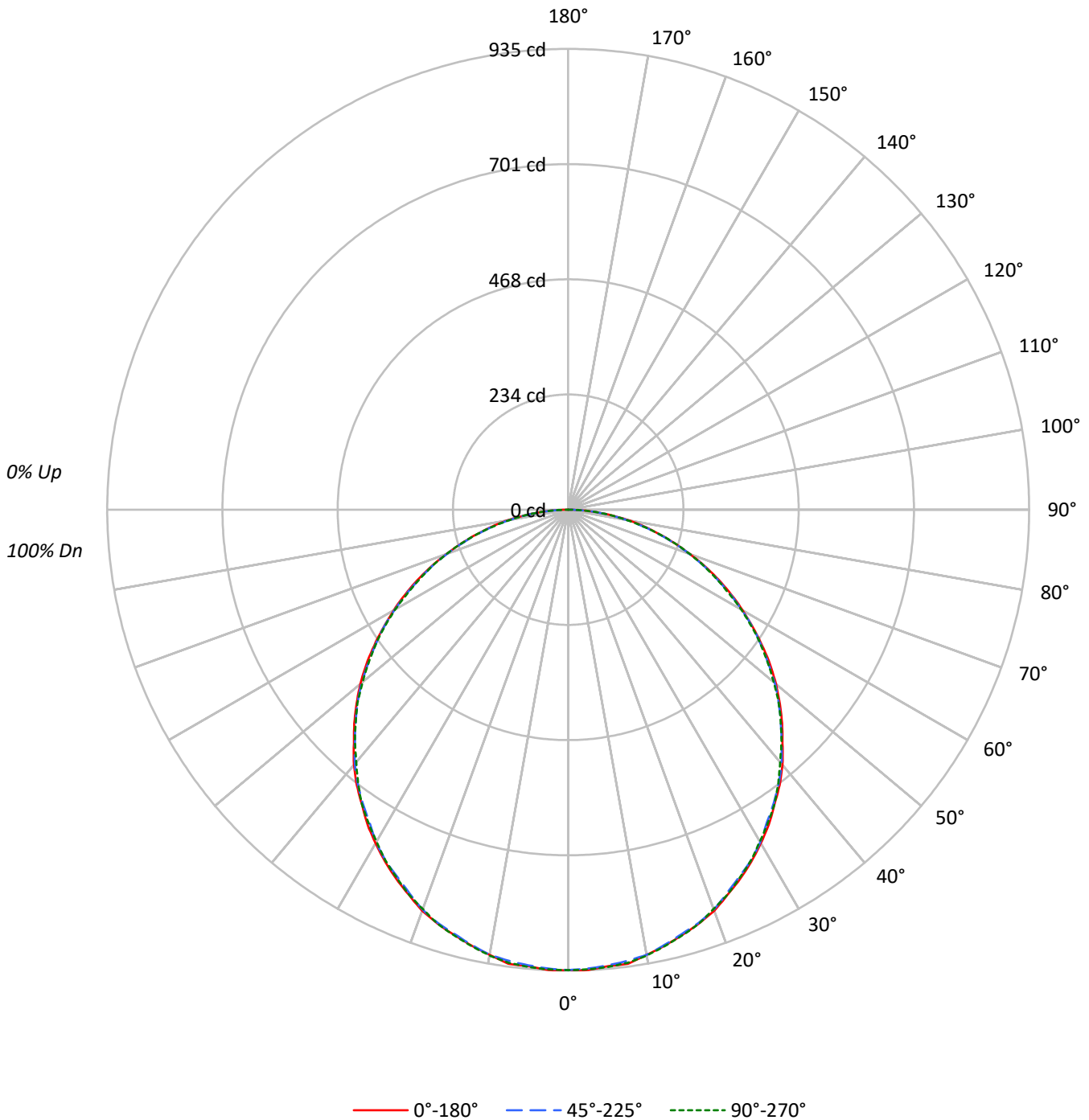
Input Watts (W): 28.458
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91		93	90	88		89	87	85	83
2	98	90	83	77	96	88	82	76	85	79	74		81	77	73		78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40		52	45	40		50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35		47	40	35		46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32		43	36	31		42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28		40	33	28		39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26		37	30	26		36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2514	2514	2514
5°	2511	2506	2515
10°	2505	2505	2510
15°	2489	2483	2491
20°	2480	2473	2469
25°	2453	2439	2446
30°	2428	2421	2416
35°	2397	2387	2397
40°	2376	2365	2348
45°	2335	2320	2320
50°	2303	2290	2277
55°	2254	2239	2236
60°	2202	2189	2181
65°	2146	2121	2111
70°	2060	2054	2060
75°	1988	1964	1980
80°	1968	1870	1858
85°	1741	1695	1717



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	3.3
10°-20°	252.1	9.4
20°-30°	379.7	14.2
30°-40°	455.6	17.1
40°-50°	471.5	17.7
50°-60°	427.2	16.0
60°-70°	331.2	12.4
70°-80°	201.0	7.5
80°-90°	62.2	2.3
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°	720.2	27.0
0°-40°	1175.9	44.1
0°-60°	2074.6	77.7
0°-90°	2669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2669.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	934	934	934	934	934	
5°	930	930	928	930	931	89
15°	893	893	891	895	894	252
25°	826	824	821	824	824	381
35°	730	730	726	727	730	457
45°	614	613	610	610	610	474
55°	480	480	477	476	476	430
65°	337	337	333	335	332	333
75°	191	190	189	189	190	203
85°	56	56	55	55	56	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	934.2	934.2	934.2	934.2	934.2
2.5°	935.0	931.0	931.8	933.4	933.4
5°	929.5	929.5	927.9	930.3	931.0
7.5°	929.5	925.6	923.2	925.6	927.1
10°	916.9	915.4	916.9	916.1	918.5
12.5°	906.0	904.4	904.4	906.7	906.7
15°	893.4	893.4	891.1	895.0	894.2
17.5°	880.9	880.9	879.3	879.3	880.9
20°	866.0	862.1	863.6	862.9	862.1
22.5°	845.6	843.3	841.7	844.0	844.8
25°	826.0	824.5	821.3	824.5	823.7
27.5°	804.9	803.3	802.5	800.9	802.5
30°	781.4	779.8	779.0	777.4	777.4
32.5°	757.8	754.7	750.8	754.7	753.9
35°	729.6	729.6	726.5	727.3	729.6
37.5°	704.5	703.0	701.4	699.1	699.8
40°	676.3	674.0	673.2	671.6	668.5
42.5°	643.4	643.4	640.3	641.1	640.3
45°	613.6	612.9	609.7	609.7	609.7
47.5°	582.3	581.5	579.2	577.6	579.2
50°	550.2	547.0	547.0	544.7	543.9
52.5°	516.5	514.1	511.0	511.8	510.2
55°	480.4	479.6	477.3	476.5	476.5
57.5°	444.4	445.1	443.6	440.4	441.2
60°	409.1	408.3	406.7	405.2	405.2
62.5°	373.0	373.0	369.9	369.9	366.8
65°	337.0	337.0	333.1	334.6	331.5
67.5°	300.9	300.2	297.8	297.0	297.8
70°	261.8	262.5	261.0	261.0	261.8
72.5°	226.5	225.7	224.9	224.9	226.5
75°	191.2	190.4	188.9	188.9	190.4
77.5°	159.1	155.2	154.4	156.0	153.6
80°	127.0	121.5	120.7	119.9	119.9
82.5°	89.3	87.0	87.8	87.0	88.6
85°	56.4	55.6	54.9	54.9	55.6
87.5°	26.6	25.1	25.1	24.3	24.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)