

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: P292884

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292884
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.0 lumens
Efficiency: N/A
Efficacy: 91.7 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

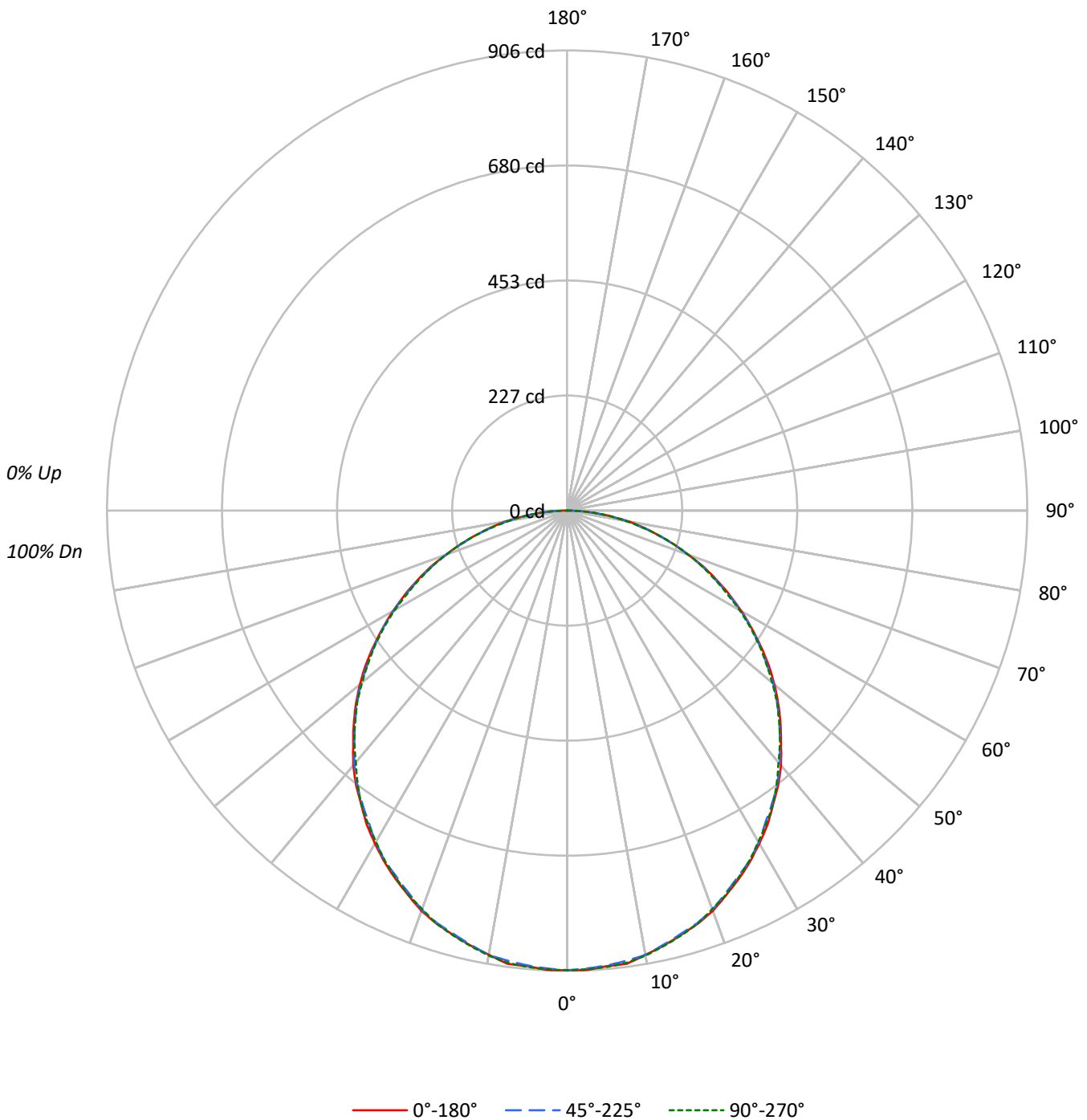
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2435	2435	2435
5°	2432	2428	2436
10°	2427	2427	2431
15°	2411	2404	2413
20°	2402	2395	2391
25°	2375	2362	2369
30°	2352	2344	2340
35°	2322	2311	2322
40°	2301	2290	2275
45°	2262	2247	2247
50°	2231	2218	2205
55°	2183	2169	2165
60°	2132	2120	2112
65°	2078	2054	2045
70°	1995	1989	1995
75°	1926	1902	1917
80°	1906	1812	1799
85°	1689	1639	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.6	3.3
10°-20°	244.2	9.4
20°-30°	367.7	14.2
30°-40°	441.3	17.1
40°-50°	456.6	17.7
50°-60°	413.8	16.0
60°-70°	320.8	12.4
70°-80°	194.7	7.5
80°-90°	60.3	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°	697.5	27.0
0°-40°	1138.9	44.1
0°-60°	2009.3	77.7
0°-90°	2585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2585.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	900	900	899	901	902	86
15°	865	865	863	867	866	244
25°	800	798	796	798	798	369
35°	707	707	704	704	707	443
45°	594	594	590	590	590	459
55°	465	464	462	462	462	416
65°	326	326	323	324	321	323
75°	185	184	183	183	184	197
85°	55	54	53	53	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.8	904.8	904.8	904.8	904.8
2.5°	905.5	901.7	902.5	904.0	904.0
5°	900.2	900.2	898.7	901.0	901.7
7.5°	900.2	896.4	894.1	896.4	897.9
10°	888.1	886.6	888.1	887.3	889.6
12.5°	877.4	875.9	875.9	878.2	878.2
15°	865.3	865.3	863.0	866.8	866.1
17.5°	853.2	853.2	851.6	851.6	853.2
20°	838.7	834.9	836.5	835.7	834.9
22.5°	819.0	816.7	815.2	817.5	818.2
25°	800.0	798.5	795.5	798.5	797.7
27.5°	779.5	778.0	777.3	775.7	777.3
30°	756.8	755.2	754.5	753.0	753.0
32.5°	734.0	731.0	727.2	731.0	730.2
35°	706.7	706.7	703.6	704.4	706.7
37.5°	682.4	680.9	679.3	677.1	677.8
40°	655.1	652.8	652.0	650.5	647.5
42.5°	623.2	623.2	620.1	620.9	620.1
45°	594.3	593.6	590.5	590.5	590.5
47.5°	564.0	563.2	560.9	559.4	560.9
50°	532.8	529.8	529.8	527.5	526.8
52.5°	500.2	497.9	494.9	495.7	494.1
55°	465.3	464.5	462.3	461.5	461.5
57.5°	430.4	431.1	429.6	426.6	427.3
60°	396.2	395.5	393.9	392.4	392.4
62.5°	361.3	361.3	358.3	358.3	355.2
65°	326.4	326.4	322.6	324.1	321.1
67.5°	291.5	290.7	288.4	287.7	288.4
70°	253.5	254.3	252.8	252.8	253.5
72.5°	219.4	218.6	217.8	217.8	219.4
75°	185.2	184.4	182.9	182.9	184.4
77.5°	154.1	150.3	149.5	151.0	148.8
80°	123.0	117.7	116.9	116.1	116.1
82.5°	86.5	84.3	85.0	84.3	85.8
85°	54.7	53.9	53.1	53.1	53.9
87.5°	25.8	24.3	24.3	23.5	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)