

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: P292834

Luminaire Tested: **22GR-LD5-36-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292834
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-L93050-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2822.0 lumens
Efficiency: N/A
Efficacy: 96.3 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

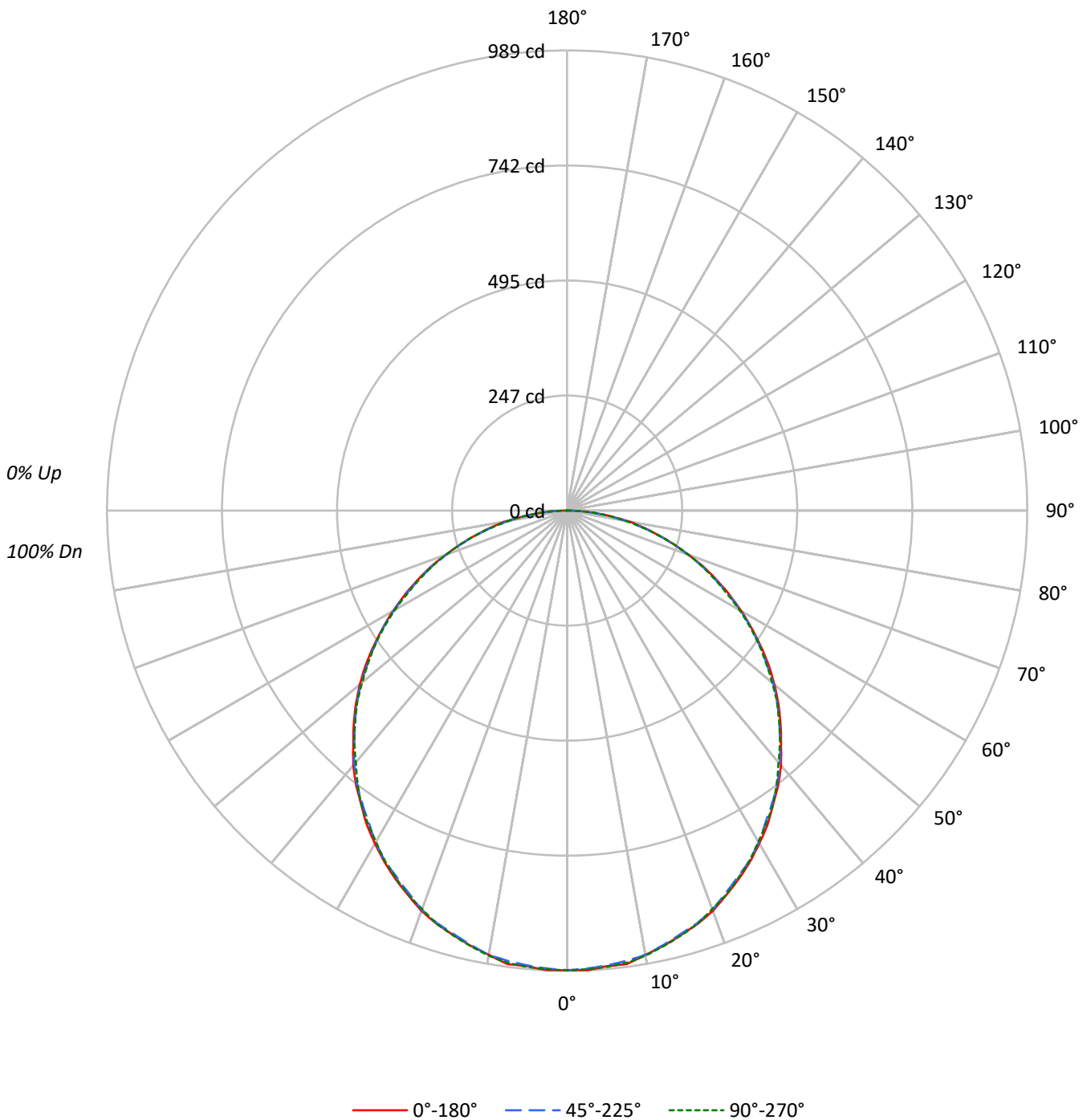
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2658	2658	2658
5°	2655	2650	2659
10°	2649	2649	2654
15°	2632	2625	2634
20°	2622	2615	2610
25°	2593	2578	2586
30°	2567	2559	2554
35°	2534	2523	2534
40°	2512	2500	2483
45°	2469	2453	2453
50°	2435	2421	2408
55°	2383	2367	2364
60°	2328	2315	2306
65°	2269	2243	2232
70°	2178	2171	2178
75°	2102	2076	2094
80°	2080	1977	1965
85°	1843	1791	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.4	3.3
10°-20°	266.6	9.4
20°-30°	401.5	14.2
30°-40°	481.8	17.1
40°-50°	498.5	17.7
50°-60°	451.7	16.0
60°-70°	350.2	12.4
70°-80°	212.6	7.5
80°-90°	65.8	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°	761.5	27.0
0°-40°	1243.3	44.1
0°-60°	2193.5	77.7
0°-90°	2822.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2822.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	988	988	988	988	988	
5°	983	983	981	984	984	94
15°	945	945	942	946	946	267
25°	873	872	868	872	871	403
35°	772	772	768	769	772	484
45°	649	648	645	645	645	501
55°	508	507	505	504	504	454
65°	356	356	352	354	350	352
75°	202	201	200	200	201	215
85°	60	59	58	58	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	987.7	987.7	987.7	987.7	987.7
2.5°	988.6	984.4	985.2	986.9	986.9
5°	982.8	982.8	981.1	983.6	984.4
7.5°	982.8	978.6	976.1	978.6	980.3
10°	969.5	967.8	969.5	968.7	971.2
12.5°	957.9	956.2	956.2	958.7	958.7
15°	944.6	944.6	942.2	946.3	945.5
17.5°	931.4	931.4	929.7	929.7	931.4
20°	915.6	911.5	913.1	912.3	911.5
22.5°	894.1	891.6	889.9	892.4	893.3
25°	873.4	871.7	868.4	871.7	870.9
27.5°	851.0	849.3	848.5	846.9	848.5
30°	826.1	824.5	823.7	822.0	822.0
32.5°	801.3	798.0	793.8	798.0	797.1
35°	771.5	771.5	768.1	769.0	771.5
37.5°	744.9	743.3	741.6	739.1	740.0
40°	715.1	712.6	711.8	710.1	706.8
42.5°	680.3	680.3	677.0	677.8	677.0
45°	648.8	648.0	644.7	644.7	644.7
47.5°	615.7	614.8	612.4	610.7	612.4
50°	581.7	578.4	578.4	575.9	575.1
52.5°	546.1	543.6	540.3	541.1	539.4
55°	507.9	507.1	504.6	503.8	503.8
57.5°	469.8	470.7	469.0	465.7	466.5
60°	432.5	431.7	430.1	428.4	428.4
62.5°	394.4	394.4	391.1	391.1	387.8
65°	356.3	356.3	352.2	353.8	350.5
67.5°	318.2	317.4	314.9	314.1	314.9
70°	276.8	277.6	275.9	275.9	276.8
72.5°	239.5	238.6	237.8	237.8	239.5
75°	202.2	201.4	199.7	199.7	201.4
77.5°	168.2	164.1	163.2	164.9	162.4
80°	134.2	128.4	127.6	126.8	126.8
82.5°	94.5	92.0	92.8	92.0	93.6
85°	59.7	58.8	58.0	58.0	58.8
87.5°	28.2	26.5	26.5	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)