

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: P292730

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292730
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-LD5-32-FGW080-UNV-L83050-W2A1-U-4000K
Description: GRLED 2x2 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: 2826.0 lumens
Efficiency: N/A
Efficacy: 112.5 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

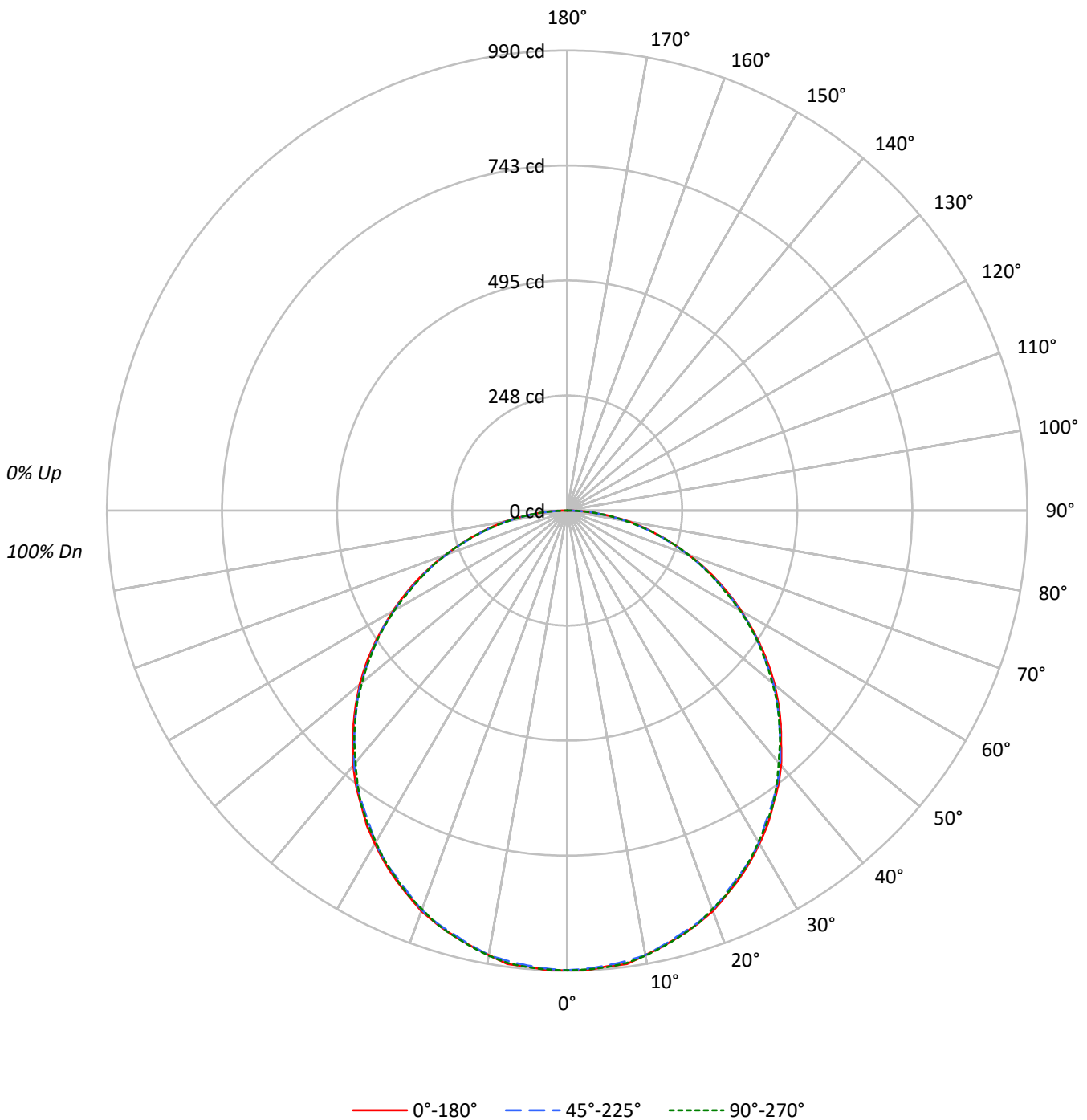
Input Watts (W): 25.11
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2662	2662	2662
5°	2658	2654	2663
10°	2653	2653	2657
15°	2635	2629	2638
20°	2626	2619	2614
25°	2597	2582	2589
30°	2571	2563	2558
35°	2538	2527	2538
40°	2516	2504	2486
45°	2473	2457	2457
50°	2439	2425	2411
55°	2387	2371	2367
60°	2331	2318	2309
65°	2272	2246	2235
70°	2181	2174	2181
75°	2105	2079	2096
80°	2083	1980	1968
85°	1843	1794	1819



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	3.3
10°-20°	267.0	9.4
20°-30°	402.0	14.2
30°-40°	482.5	17.1
40°-50°	499.2	17.7
50°-60°	452.4	16.0
60°-70°	350.7	12.4
70°-80°	212.9	7.5
80°-90°	65.9	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°	762.6	27.0
0°-40°	1245.0	44.1
0°-60°	2196.6	77.7
0°-90°	2826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	984	984	982	985	986	94
15°	946	946	944	948	947	267
25°	875	873	870	873	872	403
35°	772	772	769	770	772	484
45°	650	649	646	646	646	501
55°	509	508	505	504	504	455
65°	357	357	353	354	351	353
75°	202	202	200	200	202	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°	989.1	989.1	989.1	989.1	989.1
2.5°	990.0	985.8	986.6	988.3	988.3
5°	984.1	984.1	982.5	985.0	985.8
7.5°	984.1	980.0	977.5	980.0	981.7
10°	970.9	969.2	970.9	970.0	972.5
12.5°	959.3	957.6	957.6	960.1	960.1
15°	946.0	946.0	943.5	947.6	946.8
17.5°	932.7	932.7	931.0	931.0	932.7
20°	916.9	912.8	914.4	913.6	912.8
22.5°	895.4	892.9	891.2	893.7	894.5
25°	874.6	873.0	869.6	873.0	872.1
27.5°	852.2	850.5	849.7	848.1	849.7
30°	827.3	825.7	824.8	823.2	823.2
32.5°	802.4	799.1	795.0	799.1	798.3
35°	772.5	772.5	769.2	770.1	772.5
37.5°	746.0	744.3	742.7	740.2	741.0
40°	716.1	713.6	712.8	711.1	707.8
42.5°	681.3	681.3	677.9	678.8	677.9
45°	649.7	648.9	645.6	645.6	645.6
47.5°	616.5	615.7	613.2	611.6	613.2
50°	582.5	579.2	579.2	576.7	575.9
52.5°	546.8	544.4	541.0	541.9	540.2
55°	508.7	507.8	505.4	504.5	504.5
57.5°	470.5	471.3	469.7	466.3	467.2
60°	433.2	432.3	430.7	429.0	429.0
62.5°	395.0	395.0	391.7	391.7	388.3
65°	356.8	356.8	352.7	354.3	351.0
67.5°	318.6	317.8	315.3	314.5	315.3
70°	277.2	278.0	276.3	276.3	277.2
72.5°	239.8	239.0	238.2	238.2	239.8
75°	202.5	201.6	200.0	200.0	201.6
77.5°	168.5	164.3	163.5	165.1	162.6
80°	134.4	128.6	127.8	127.0	127.0
82.5°	94.6	92.1	92.9	92.1	93.8
85°	59.7	58.9	58.1	58.1	58.9
87.5°	28.2	26.6	26.6	25.7	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)