

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: P292841

Luminaire Tested: **22GR-LD5-43-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292841
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-LD5-43-FGW080-UNV-L93050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2829.0 lumens
Efficiency: N/A
Efficacy: 78.6 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

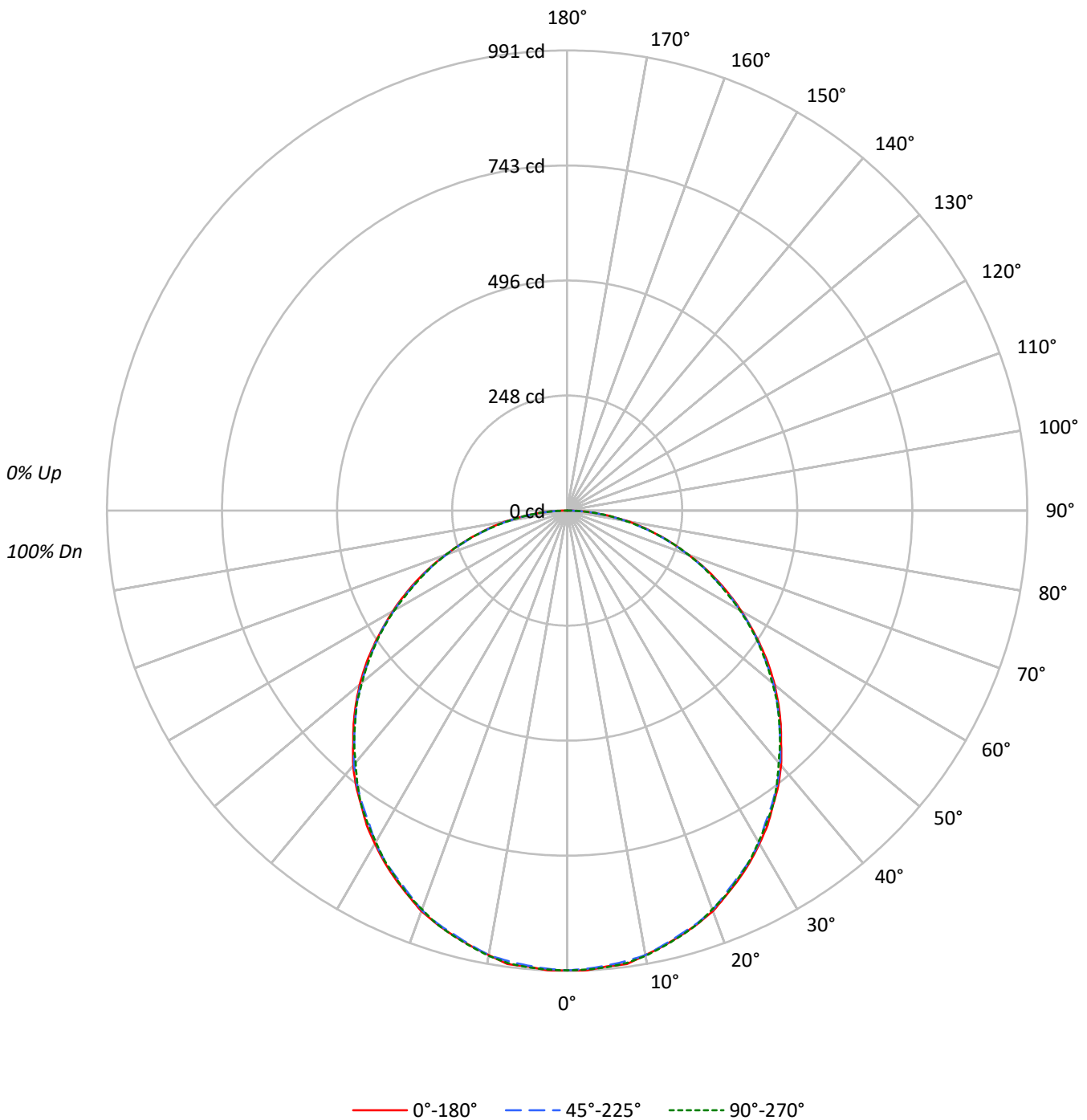
Input Watts (W): 35.991
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2665	2665	2665
5°	2661	2657	2666
10°	2656	2656	2660
15°	2638	2631	2640
20°	2629	2621	2617
25°	2600	2585	2592
30°	2573	2566	2560
35°	2541	2530	2541
40°	2518	2507	2489
45°	2475	2460	2460
50°	2441	2427	2413
55°	2389	2373	2370
60°	2334	2320	2312
65°	2274	2248	2238
70°	2183	2176	2183
75°	2108	2082	2099
80°	2086	1982	1970
85°	1846	1794	1822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.7	3.3
10°-20°	267.3	9.4
20°-30°	402.5	14.2
30°-40°	483.0	17.1
40°-50°	499.8	17.7
50°-60°	452.8	16.0
60°-70°	351.0	12.4
70°-80°	213.1	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°	763.4	27.0
0°-40°	1246.3	44.1
0°-60°	2198.9	77.7
0°-90°	2829.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2829.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	985	985	984	986	987	94
15°	947	947	944	949	948	268
25°	876	874	871	874	873	404
35°	773	773	770	771	773	485
45°	650	650	646	646	646	502
55°	509	508	506	505	505	455
65°	357	357	353	355	351	353
75°	203	202	200	200	202	216
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°	990.2	990.2	990.2	990.2	990.2
2.5°	991.0	986.9	987.7	989.3	989.3
5°	985.2	985.2	983.5	986.0	986.9
7.5°	985.2	981.0	978.5	981.0	982.7
10°	971.9	970.2	971.9	971.1	973.6
12.5°	960.3	958.6	958.6	961.1	961.1
15°	947.0	947.0	944.5	948.6	947.8
17.5°	933.7	933.7	932.0	932.0	933.7
20°	917.9	913.8	915.4	914.6	913.8
22.5°	896.3	893.8	892.2	894.6	895.5
25°	875.5	873.9	870.6	873.9	873.0
27.5°	853.1	851.5	850.6	849.0	850.6
30°	828.2	826.5	825.7	824.0	824.0
32.5°	803.3	799.9	795.8	799.9	799.1
35°	773.4	773.4	770.0	770.9	773.4
37.5°	746.8	745.1	743.5	741.0	741.8
40°	716.9	714.4	713.6	711.9	708.6
42.5°	682.0	682.0	678.7	679.5	678.7
45°	650.4	649.6	646.3	646.3	646.3
47.5°	617.2	616.4	613.9	612.2	613.9
50°	583.1	579.8	579.8	577.3	576.5
52.5°	547.4	544.9	541.6	542.4	540.8
55°	509.2	508.4	505.9	505.1	505.1
57.5°	471.0	471.8	470.2	466.8	467.7
60°	433.6	432.8	431.1	429.5	429.5
62.5°	395.4	395.4	392.1	392.1	388.8
65°	357.2	357.2	353.0	354.7	351.4
67.5°	319.0	318.2	315.7	314.8	315.7
70°	277.4	278.3	276.6	276.6	277.4
72.5°	240.1	239.2	238.4	238.4	240.1
75°	202.7	201.9	200.2	200.2	201.9
77.5°	168.6	164.5	163.6	165.3	162.8
80°	134.6	128.8	127.9	127.1	127.1
82.5°	94.7	92.2	93.0	92.2	93.9
85°	59.8	59.0	58.1	58.1	59.0
87.5°	28.2	26.6	26.6	25.8	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)