

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: P292829

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292829
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-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: 2514.0 lumens
Efficiency: N/A
Efficacy: 98.3 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

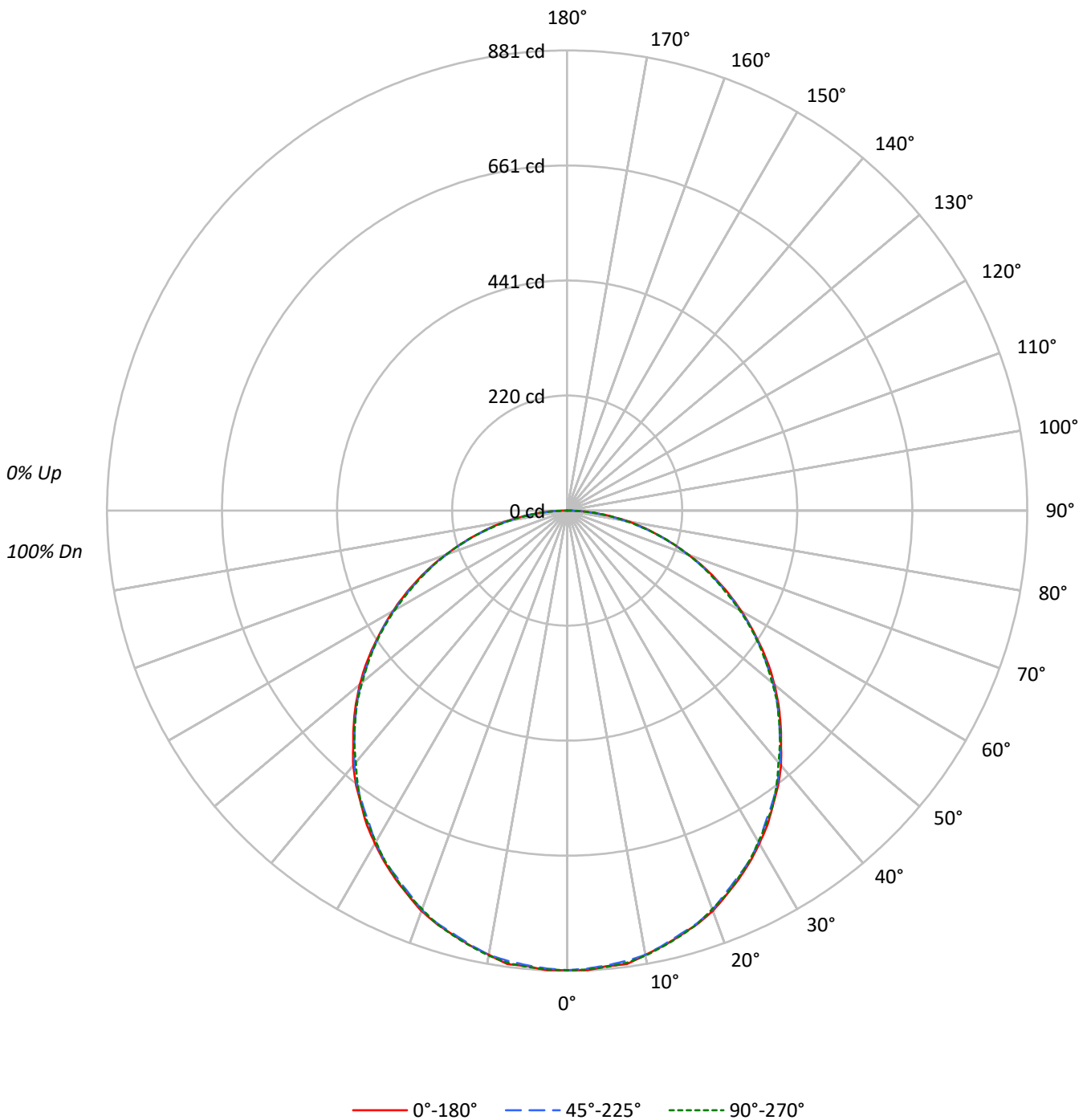
Input Watts (W): 25.575
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2368	2368	2368
5°	2365	2361	2369
10°	2360	2360	2364
15°	2344	2338	2347
20°	2336	2330	2325
25°	2310	2297	2303
30°	2287	2280	2275
35°	2258	2248	2258
40°	2238	2227	2212
45°	2200	2186	2186
50°	2169	2157	2145
55°	2123	2109	2106
60°	2074	2062	2054
65°	2021	1997	1989
70°	1940	1934	1940
75°	1873	1850	1865
80°	1853	1762	1750
85°	1639	1596	1618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.3
10°-20°	237.5	9.4
20°-30°	357.6	14.2
30°-40°	429.2	17.1
40°-50°	444.1	17.7
50°-60°	402.4	16.0
60°-70°	311.9	12.4
70°-80°	189.4	7.5
80°-90°	58.6	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°	678.4	27.0
0°-40°	1107.6	44.1
0°-60°	1954.1	77.7
0°-90°	2514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	880	880	880	880	880	
5°	876	876	874	876	877	83
15°	842	842	839	843	842	238
25°	778	777	774	777	776	359
35°	687	687	684	685	687	431
45°	578	577	574	574	574	446
55°	452	452	450	449	449	405
65°	317	317	314	315	312	314
75°	180	179	178	178	179	192
85°	53	52	52	52	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	879.9	879.9	879.9	879.9	879.9
2.5°	880.7	877.0	877.7	879.2	879.2
5°	875.5	875.5	874.0	876.2	877.0
7.5°	875.5	871.8	869.6	871.8	873.3
10°	863.7	862.2	863.7	862.9	865.2
12.5°	853.3	851.9	851.9	854.1	854.1
15°	841.5	841.5	839.3	843.0	842.3
17.5°	829.7	829.7	828.3	828.3	829.7
20°	815.7	812.0	813.5	812.7	812.0
22.5°	796.5	794.3	792.8	795.0	795.8
25°	778.1	776.6	773.6	776.6	775.8
27.5°	758.1	756.6	755.9	754.4	755.9
30°	736.0	734.5	733.8	732.3	732.3
32.5°	713.8	710.9	707.2	710.9	710.1
35°	687.3	687.3	684.3	685.0	687.3
37.5°	663.6	662.2	660.7	658.5	659.2
40°	637.1	634.8	634.1	632.6	629.7
42.5°	606.1	606.1	603.1	603.8	603.1
45°	578.0	577.3	574.3	574.3	574.3
47.5°	548.5	547.7	545.5	544.0	545.5
50°	518.2	515.3	515.3	513.0	512.3
52.5°	486.5	484.3	481.3	482.0	480.6
55°	452.5	451.8	449.6	448.8	448.8
57.5°	418.6	419.3	417.8	414.9	415.6
60°	385.3	384.6	383.1	381.6	381.6
62.5°	351.4	351.4	348.4	348.4	345.5
65°	317.4	317.4	313.7	315.2	312.3
67.5°	283.5	282.7	280.5	279.8	280.5
70°	246.6	247.3	245.8	245.8	246.6
72.5°	213.3	212.6	211.9	211.9	213.3
75°	180.1	179.4	177.9	177.9	179.4
77.5°	149.9	146.2	145.4	146.9	144.7
80°	119.6	114.4	113.7	112.9	112.9
82.5°	84.2	81.9	82.7	81.9	83.4
85°	53.1	52.4	51.7	51.7	52.4
87.5°	25.1	23.6	23.6	22.9	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)