

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: P292881

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292881
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2555.0 lumens
Efficiency: N/A
Efficacy: 99.5 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

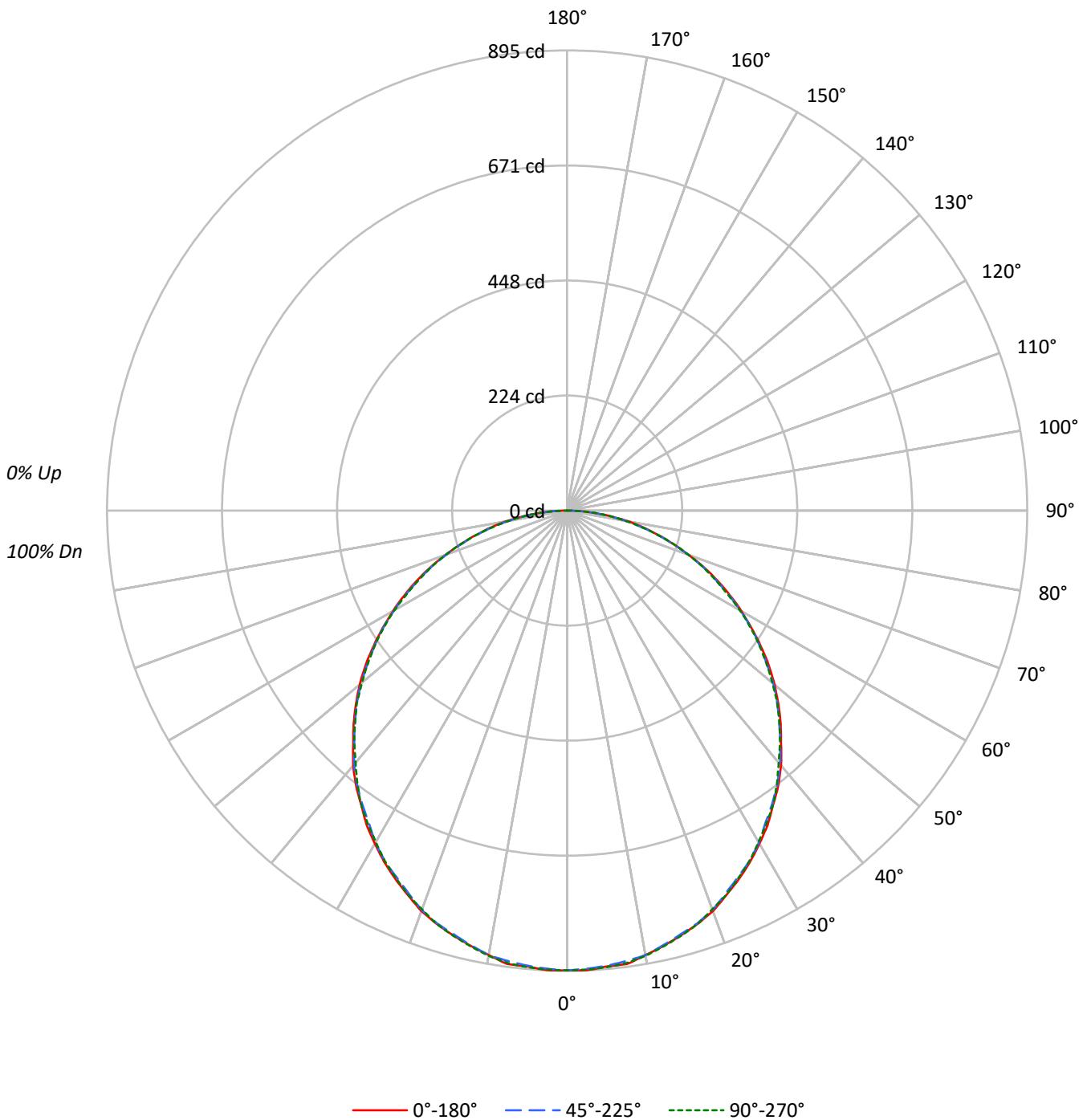
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2407	2407	2407
5°	2404	2400	2408
10°	2399	2399	2403
15°	2383	2376	2385
20°	2374	2368	2363
25°	2348	2334	2341
30°	2324	2317	2312
35°	2295	2285	2295
40°	2274	2264	2248
45°	2235	2221	2221
50°	2205	2192	2180
55°	2158	2144	2140
60°	2108	2096	2088
65°	2054	2030	2020
70°	1972	1965	1972
75°	1904	1880	1895
80°	1883	1790	1779
85°	1667	1621	1646



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	3.3
10°-20°	241.4	9.4
20°-30°	363.5	14.2
30°-40°	436.2	17.1
40°-50°	451.3	17.7
50°-60°	409.0	16.0
60°-70°	317.0	12.4
70°-80°	192.4	7.5
80°-90°	59.6	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°	689.4	27.0
0°-40°	1125.6	44.1
0°-60°	1986.0	77.7
0°-90°	2555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	890	890	888	890	891	85
15°	855	855	853	857	856	242
25°	791	789	786	789	788	364
35°	698	698	696	696	698	438
45°	587	587	584	584	584	453
55°	460	459	457	456	456	411
65°	323	323	319	320	317	319
75°	183	182	181	181	182	195
85°	54	53	52	52	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	894.3	894.3	894.3	894.3	894.3
2.5°	895.0	891.3	892.0	893.5	893.5
5°	889.8	889.8	888.3	890.5	891.3
7.5°	889.8	886.0	883.8	886.0	887.5
10°	877.8	876.3	877.8	877.0	879.3
12.5°	867.3	865.8	865.8	868.0	868.0
15°	855.3	855.3	853.0	856.8	856.0
17.5°	843.3	843.3	841.8	841.8	843.3
20°	829.0	825.3	826.8	826.0	825.3
22.5°	809.5	807.2	805.7	808.0	808.7
25°	790.7	789.2	786.2	789.2	788.5
27.5°	770.5	769.0	768.2	766.7	768.2
30°	748.0	746.5	745.7	744.2	744.2
32.5°	725.5	722.5	718.7	722.5	721.7
35°	698.5	698.5	695.5	696.2	698.5
37.5°	674.5	673.0	671.5	669.2	670.0
40°	647.4	645.2	644.4	642.9	639.9
42.5°	615.9	615.9	612.9	613.7	612.9
45°	587.4	586.7	583.7	583.7	583.7
47.5°	557.4	556.7	554.4	552.9	554.4
50°	526.7	523.7	523.7	521.4	520.7
52.5°	494.4	492.2	489.1	489.9	488.4
55°	459.9	459.1	456.9	456.1	456.1
57.5°	425.4	426.1	424.6	421.6	422.4
60°	391.6	390.9	389.4	387.9	387.9
62.5°	357.1	357.1	354.1	354.1	351.1
65°	322.6	322.6	318.8	320.3	317.3
67.5°	288.1	287.3	285.1	284.3	285.1
70°	250.6	251.3	249.8	249.8	250.6
72.5°	216.8	216.1	215.3	215.3	216.8
75°	183.1	182.3	180.8	180.8	182.3
77.5°	152.3	148.5	147.8	149.3	147.0
80°	121.5	116.3	115.5	114.8	114.8
82.5°	85.5	83.3	84.0	83.3	84.8
85°	54.0	53.3	52.5	52.5	53.3
87.5°	25.5	24.0	24.0	23.3	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)