

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: P292779

Luminaire Tested: **22GR-LD5-32-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292779
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-L82765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2735.0 lumens
Efficiency: N/A
Efficacy: 109.3 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

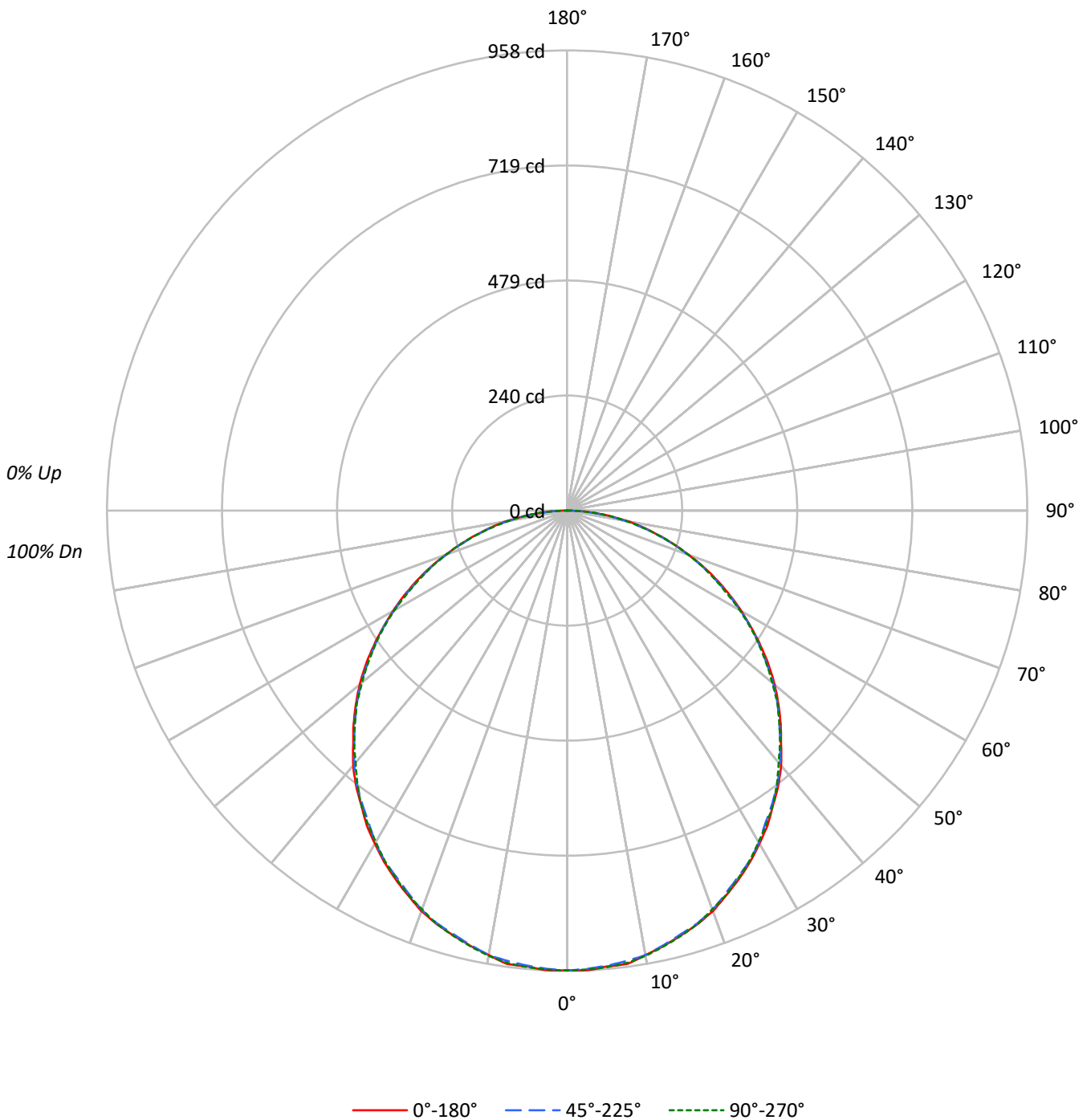
Input Watts (W): 25.017
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2576	2576	2576
5°	2573	2569	2577
10°	2567	2567	2572
15°	2550	2544	2553
20°	2541	2534	2530
25°	2513	2499	2506
30°	2488	2481	2476
35°	2456	2446	2456
40°	2435	2423	2406
45°	2393	2378	2378
50°	2360	2347	2333
55°	2310	2295	2291
60°	2256	2243	2235
65°	2199	2173	2163
70°	2110	2104	2110
75°	2038	2012	2028
80°	2016	1917	1905
85°	1785	1735	1760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.3
10°-20°	258.4	9.4
20°-30°	389.1	14.2
30°-40°	466.9	17.1
40°-50°	483.1	17.7
50°-60°	437.8	16.0
60°-70°	339.4	12.4
70°-80°	206.0	7.5
80°-90°	63.7	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°	738.0	27.0
0°-40°	1205.0	44.1
0°-60°	2125.9	77.7
0°-90°	2735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	952	952	951	953	954	91
15°	916	916	913	917	916	259
25°	846	845	842	845	844	390
35°	748	748	744	745	748	469
45°	629	628	625	625	625	485
55°	492	492	489	488	488	440
65°	345	345	341	343	340	341
75°	196	195	194	194	195	208
85°	58	57	56	56	57	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.3	957.3	957.3	957.3	957.3
2.5°	958.1	954.1	954.9	956.5	956.5
5°	952.5	952.5	950.9	953.3	954.1
7.5°	952.5	948.4	946.0	948.4	950.0
10°	939.6	938.0	939.6	938.8	941.2
12.5°	928.4	926.8	926.8	929.2	929.2
15°	915.5	915.5	913.1	917.1	916.3
17.5°	902.7	902.7	901.1	901.1	902.7
20°	887.4	883.4	885.0	884.2	883.4
22.5°	866.5	864.1	862.5	864.9	865.7
25°	846.5	844.8	841.6	844.8	844.0
27.5°	824.8	823.2	822.4	820.8	822.4
30°	800.7	799.1	798.3	796.7	796.7
32.5°	776.6	773.4	769.4	773.4	772.6
35°	747.7	747.7	744.5	745.3	747.7
37.5°	722.0	720.4	718.8	716.4	717.2
40°	693.1	690.7	689.8	688.2	685.0
42.5°	659.3	659.3	656.1	656.9	656.1
45°	628.8	628.0	624.8	624.8	624.8
47.5°	596.7	595.9	593.5	591.9	593.5
50°	563.8	560.6	560.6	558.1	557.3
52.5°	529.2	526.8	523.6	524.4	522.8
55°	492.3	491.5	489.1	488.3	488.3
57.5°	455.3	456.2	454.5	451.3	452.1
60°	419.2	418.4	416.8	415.2	415.2
62.5°	382.3	382.3	379.1	379.1	375.8
65°	345.3	345.3	341.3	342.9	339.7
67.5°	308.4	307.6	305.2	304.4	305.2
70°	268.2	269.0	267.4	267.4	268.2
72.5°	232.1	231.3	230.5	230.5	232.1
75°	196.0	195.1	193.5	193.5	195.1
77.5°	163.0	159.0	158.2	159.8	157.4
80°	130.1	124.5	123.7	122.9	122.9
82.5°	91.6	89.1	89.9	89.1	90.7
85°	57.8	57.0	56.2	56.2	57.0
87.5°	27.3	25.7	25.7	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)