

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: P292268

Luminaire Tested: **22GR-LD5-24-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292268
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-A-UNV-L92765-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1982.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

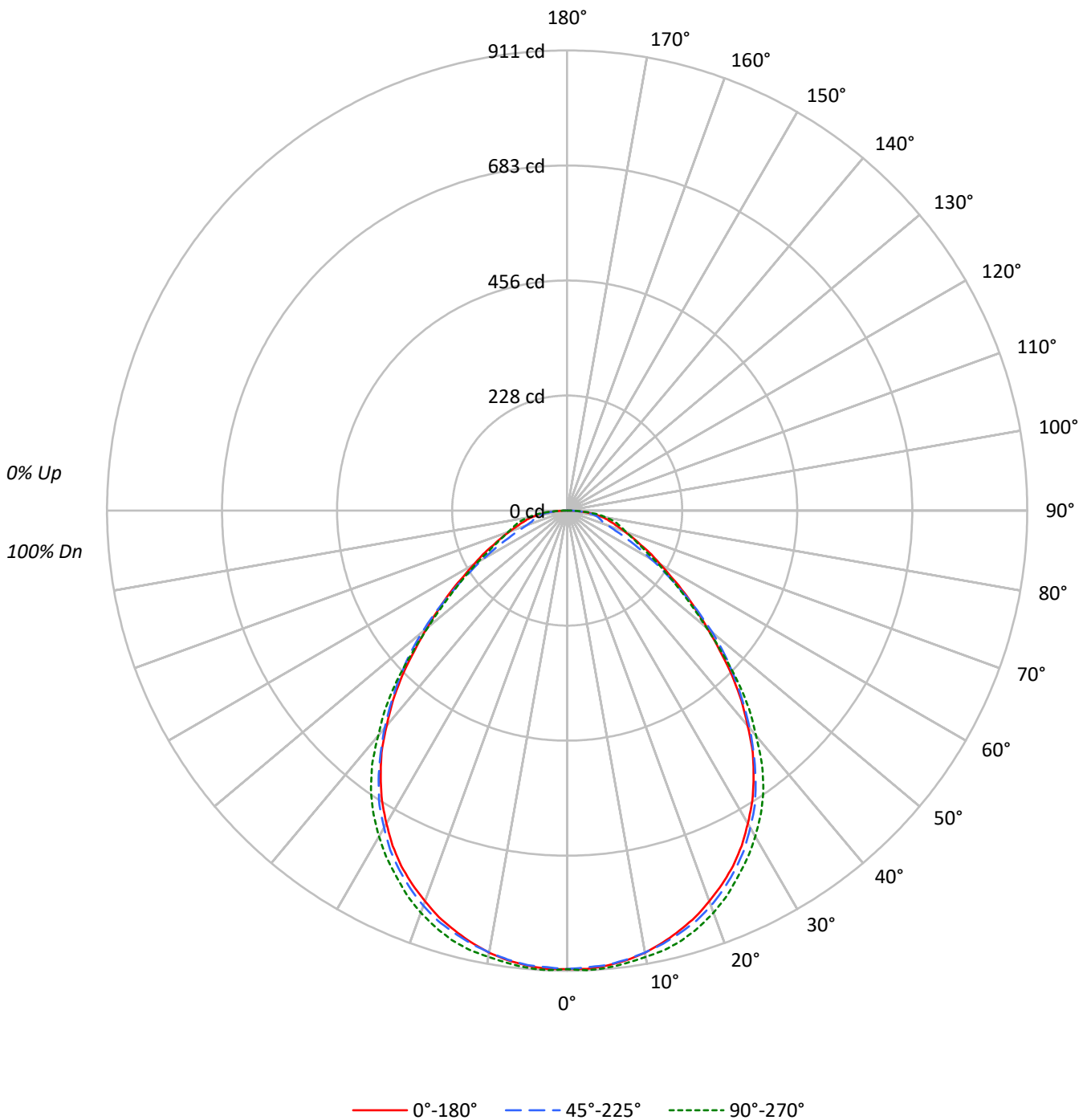
Input Watts (W): 17.949
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2443	2443	2443
5°	2443	2440	2454
10°	2429	2427	2451
15°	2398	2411	2453
20°	2356	2384	2426
25°	2306	2332	2375
30°	2223	2253	2315
35°	2114	2138	2224
40°	1954	1975	2045
45°	1755	1787	1815
50°	1518	1572	1502
55°	1324	1290	1272
60°	1147	1033	1102
65°	1025	811	989
70°	950	671	976
75°	949	710	1083
80°	1051	894	1223
85°	1096	969	1380



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.9	4.3
10°-20°	244.6	12.3
20°-30°	361.8	18.3
30°-40°	408.3	20.6
40°-50°	359.9	18.2
50°-60°	246.9	12.5
60°-70°	145.7	7.4
70°-80°	90.9	4.6
80°-90°	37.9	1.9
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°	692.3	34.9
0°-40°	1100.6	55.5
0°-60°	1707.5	86.1
0°-90°	1982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1982.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	908	908	908	908	908	
5°	904	903	903	906	909	86
15°	861	862	865	876	880	243
25°	777	780	786	796	800	357
35°	643	649	651	666	677	401
45°	461	464	470	472	477	354
55°	282	275	275	266	271	253
65°	161	142	127	147	155	162
75°	91	82	68	96	104	98
85°	36	33	31	41	45	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	907.7	907.7	907.7	907.7	907.7
2.5°	908.1	905.8	904.9	908.6	910.9
5°	904.5	902.6	903.1	906.3	908.6
7.5°	898.0	896.6	896.6	901.2	903.5
10°	888.8	888.3	888.3	893.8	897.1
12.5°	875.9	876.3	878.2	885.5	891.1
15°	860.6	861.6	865.3	875.9	880.5
17.5°	844.0	844.0	851.4	859.7	865.3
20°	822.8	824.2	832.5	841.7	847.3
22.5°	801.1	803.4	810.4	821.0	826.0
25°	776.7	779.5	785.5	795.6	799.8
27.5°	748.1	751.8	758.2	765.6	774.4
30°	715.4	720.9	725.0	735.2	744.9
32.5°	682.1	687.2	691.8	702.4	713.5
35°	643.4	648.9	650.8	666.5	677.1
37.5°	603.7	606.0	607.0	622.6	634.2
40°	556.2	560.8	562.2	574.7	582.1
42.5°	510.6	512.4	515.2	524.4	533.2
45°	461.2	463.5	469.5	472.3	476.9
47.5°	409.6	416.5	423.4	414.6	415.1
50°	362.5	368.1	375.4	358.8	358.8
52.5°	320.5	323.3	323.8	309.9	312.7
55°	282.3	275.3	274.9	265.7	271.2
57.5°	244.0	234.8	231.5	228.8	235.2
60°	213.1	196.5	191.9	196.0	204.8
62.5°	187.7	166.5	157.7	168.3	176.2
65°	161.0	141.6	127.3	147.1	155.4
67.5°	140.2	121.8	103.3	131.4	137.4
70°	120.8	106.5	85.3	119.5	124.1
72.5°	105.2	94.1	73.8	107.9	113.5
75°	91.3	82.1	68.3	95.5	104.2
77.5°	80.3	70.1	63.6	82.6	93.2
80°	67.8	57.7	57.7	69.2	78.9
82.5°	53.5	45.2	46.6	56.3	63.2
85°	35.5	33.2	31.4	41.0	44.7
87.5°	18.0	18.4	16.6	21.2	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)