

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: P292036

Luminaire Tested: **22GR-LD5-24-F125-UNV-L93050-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-24-F125-UNV-L93050-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2279.0 lumens
Efficiency: N/A
Efficacy: 120.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

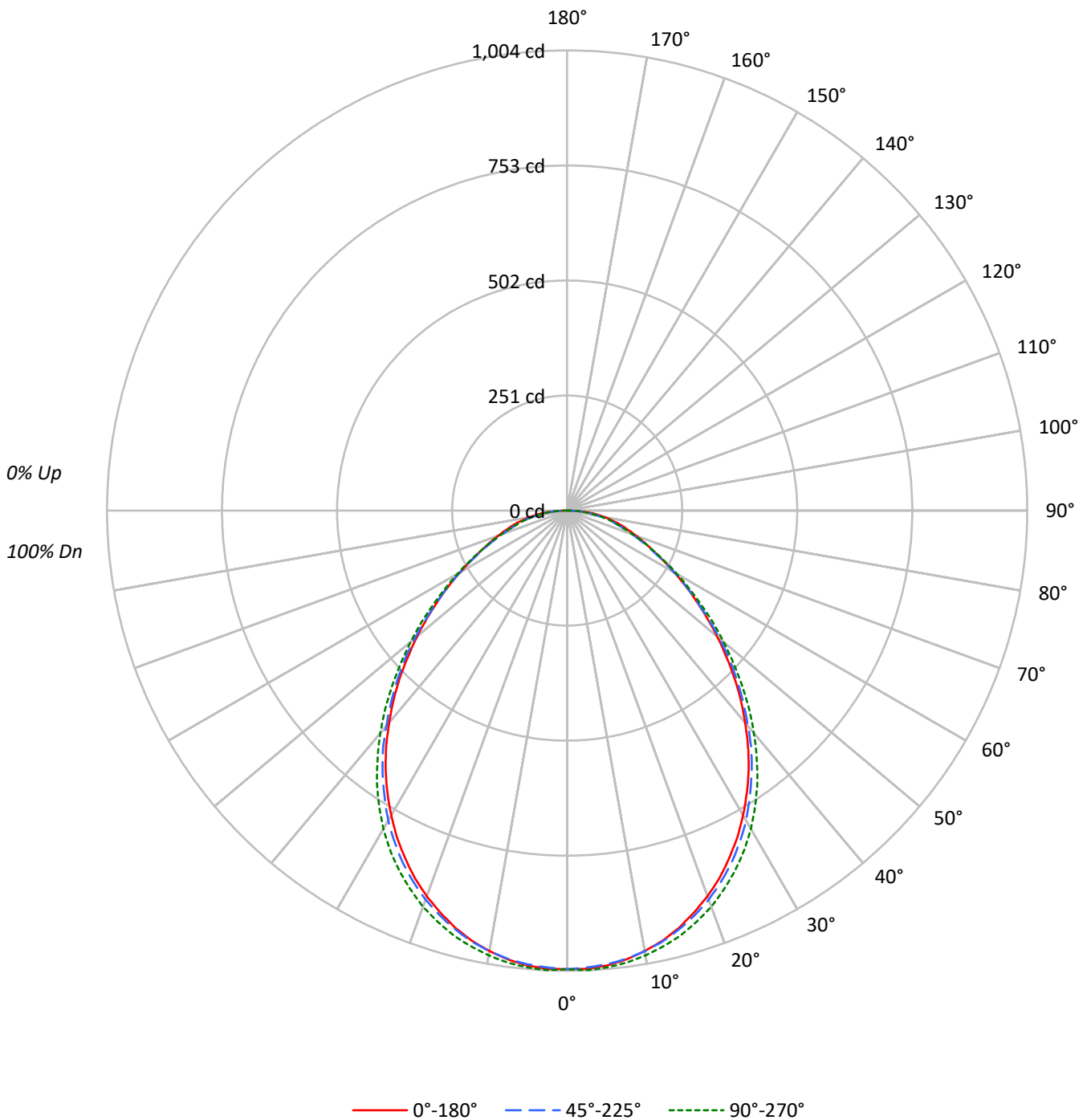
Input Watts (W): 18.879
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62					62			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54					54			
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48					48			
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42					42			
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38					38			
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31					31			
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2692	2692	2692
5°	2691	2684	2703
10°	2666	2667	2692
15°	2625	2634	2672
20°	2564	2586	2633
25°	2484	2518	2573
30°	2386	2427	2491
35°	2269	2305	2376
40°	2121	2157	2227
45°	1964	1994	2053
50°	1789	1817	1864
55°	1615	1620	1667
60°	1449	1454	1489
65°	1320	1293	1323
70°	1257	1186	1207
75°	1264	1144	1149
80°	1311	1156	1147
85°	1436	1226	1158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	4.1
10°-20°	267.0	11.7
20°-30°	390.8	17.1
30°-40°	439.4	19.3
40°-50°	405.2	17.8
50°-60°	312.3	13.7
60°-70°	206.1	9.0
70°-80°	119.9	5.3
80°-90°	43.7	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°	752.3	33.0
0°-40°	1191.7	52.3
0°-60°	1909.3	83.8
0°-90°	2279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	996	994	994	998	1000	94
15°	942	942	946	954	959	265
25°	837	841	848	860	867	385
35°	691	694	702	716	723	431
45°	516	517	524	535	539	397
55°	344	344	345	351	355	309
65°	207	206	203	205	208	208
75°	122	116	110	108	110	128
85°	46	46	40	36	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1000.5	998.4	997.8	1001.5	1003.7
5°	996.3	994.1	993.6	998.4	1000.5
7.5°	987.8	986.2	986.7	992.0	994.7
10°	975.6	975.1	976.2	982.0	985.2
12.5°	961.4	960.8	962.9	969.3	973.5
15°	942.3	942.3	945.5	954.0	959.2
17.5°	919.6	921.2	925.9	934.4	940.2
20°	895.3	896.8	903.2	912.7	919.6
22.5°	868.3	870.4	876.8	888.4	894.2
25°	836.6	840.8	848.2	859.8	866.7
27.5°	803.8	808.5	815.4	829.7	836.0
30°	767.8	771.0	781.0	794.3	801.7
32.5°	729.7	732.9	741.4	757.2	763.6
35°	690.6	693.8	701.7	716.0	723.4
37.5°	648.3	651.0	660.5	671.6	679.5
40°	603.9	607.6	613.9	627.2	634.0
42.5°	560.5	562.1	569.0	582.2	587.5
45°	516.1	516.6	524.0	534.6	539.4
47.5°	470.1	471.2	480.2	486.5	491.3
50°	427.3	427.8	434.1	440.0	445.2
52.5°	384.4	384.4	387.6	394.0	400.8
55°	344.2	343.7	345.3	351.1	355.4
57.5°	306.2	305.6	307.8	311.5	314.6
60°	269.2	268.1	270.2	272.3	276.6
62.5°	236.4	237.4	234.8	238.0	241.1
65°	207.3	206.2	203.1	204.6	207.8
67.5°	182.4	180.8	175.6	176.6	180.3
70°	159.7	156.5	150.7	150.7	153.4
72.5°	139.1	135.9	128.5	129.0	130.1
75°	121.6	116.3	110.0	107.9	110.5
77.5°	102.6	98.4	92.5	91.0	92.0
80°	84.6	81.4	74.6	72.4	74.0
82.5°	67.2	64.5	56.6	55.0	55.5
85°	46.5	46.0	39.7	36.5	37.5
87.5°	24.9	25.4	20.6	18.5	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)