

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: FAIL-SAFE

Report Number: P183389

Luminaire Tested: **SGI-G-24-2-LD4-2-STD-CA125-FA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183389  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34504)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: SGI-G-24-2-LD4-2-STD-CA125-FA  
Description:  
Light Source: 2UT217042A8404A  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3020.9 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')  
CIE Type: Direct

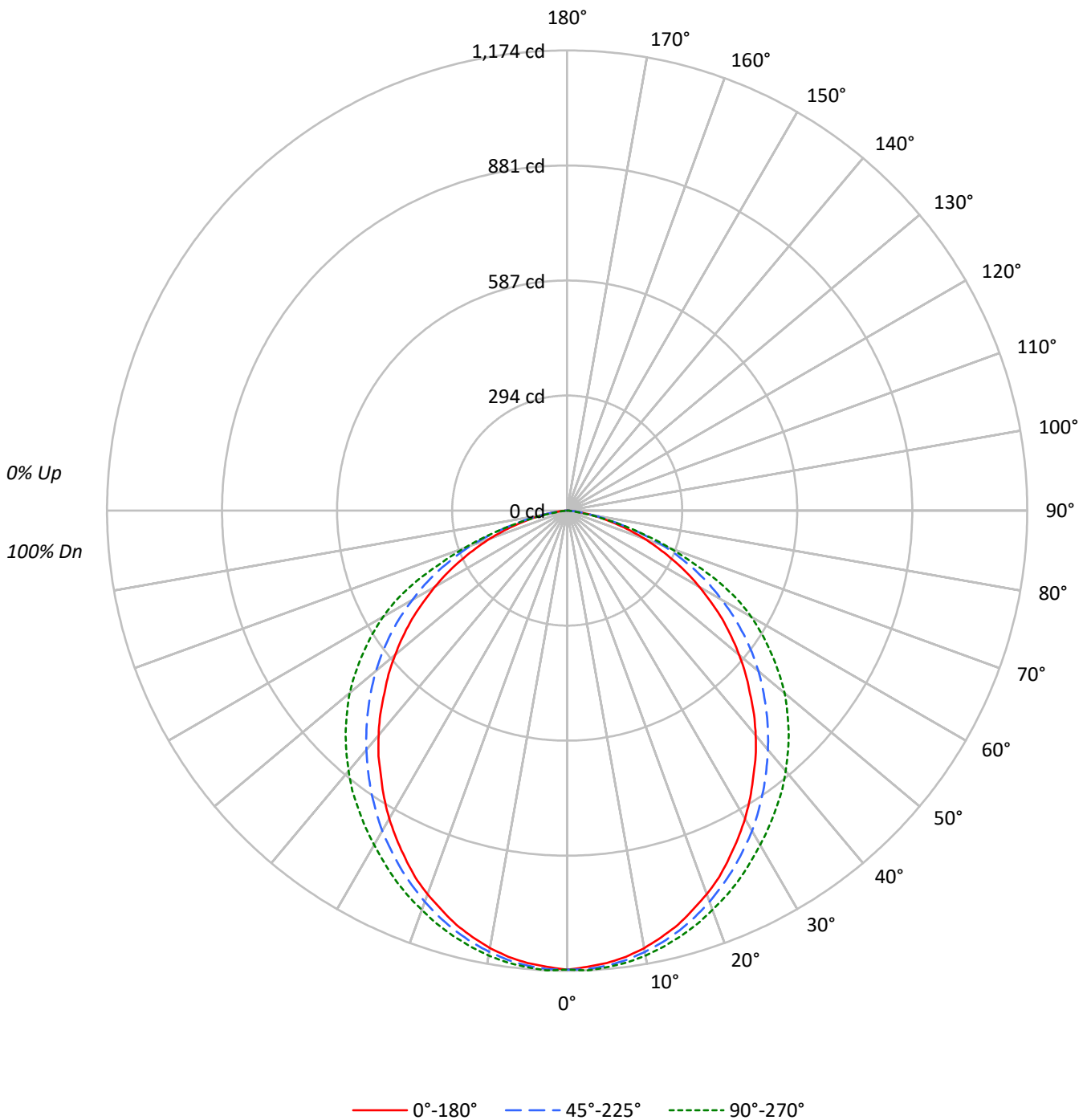
Input Watts (W): 34.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3750	3750	3750
5°	3725	3746	3759
10°	3685	3718	3749
15°	3627	3676	3725
20°	3549	3619	3695
25°	3457	3555	3671
30°	3356	3490	3642
35°	3237	3410	3632
40°	3129	3331	3626
45°	2988	3252	3620
50°	2854	3173	3610
55°	2699	3065	3551
60°	2497	2917	3474
65°	2257	2730	3196
70°	1960	2451	2612
75°	1564	1849	1849
80°	1075	1166	893
85°	603	481	331



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.5	3.7
10°-20°	312.4	10.3
20°-30°	463.9	15.4
30°-40°	547.6	18.1
40°-50°	558.3	18.5
50°-60°	495.8	16.4
60°-70°	355.2	11.8
70°-80°	155.9	5.2
80°-90°	21.2	0.7
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°	886.8	29.4
0°-40°	1434.4	47.5
0°-60°	2488.6	82.4
0°-90°	3020.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1159	1161	1165	1169	1169	110
15°	1094	1097	1109	1119	1124	308
25°	978	986	1006	1028	1039	451
35°	828	841	872	908	929	519
45°	660	674	718	772	799	510
55°	483	506	549	606	636	431
65°	298	322	360	408	422	295
75°	126	137	149	151	149	137
85°	16	17	13	11	9	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1171.1	1171.1	1171.1	1171.1	1171.1
2.5°	1165.3	1167.0	1171.1	1173.5	1174.3
5°	1158.8	1161.2	1165.3	1168.6	1169.4
7.5°	1148.1	1150.5	1156.3	1161.2	1162.9
10°	1133.3	1136.6	1143.2	1149.7	1153.0
12.5°	1114.4	1117.7	1127.6	1135.8	1139.1
15°	1093.9	1097.2	1108.7	1119.4	1123.5
17.5°	1067.7	1073.4	1086.5	1099.7	1105.4
20°	1041.4	1046.3	1061.9	1078.3	1084.1
22.5°	1012.7	1016.8	1034.8	1054.5	1062.7
25°	978.2	986.4	1006.1	1028.3	1038.9
27.5°	943.7	951.1	974.9	1000.4	1011.9
30°	907.6	916.7	943.7	970.0	984.8
32.5°	869.1	879.7	908.5	939.6	957.7
35°	828.0	841.2	872.3	908.5	929.0
37.5°	790.3	800.1	834.6	877.3	900.3
40°	748.4	760.7	796.8	843.6	867.4
42.5°	705.8	718.1	758.3	809.2	833.8
45°	659.8	673.8	718.1	772.2	799.3
47.5°	617.9	631.1	677.9	734.5	761.6
50°	572.8	588.4	636.8	693.4	724.6
52.5°	528.5	551.5	594.1	651.6	681.1
55°	483.4	506.3	549.0	606.5	636.0
57.5°	435.8	461.2	503.9	561.3	590.9
60°	389.8	413.6	455.5	512.1	542.4
62.5°	344.7	367.7	409.5	461.2	489.1
65°	297.9	321.7	360.3	407.9	421.8
67.5°	251.9	272.5	309.4	338.1	344.7
70°	209.3	224.0	261.8	270.8	279.0
72.5°	166.6	178.9	204.3	212.5	211.7
75°	126.4	137.0	149.4	151.0	149.4
77.5°	91.9	98.5	104.2	96.8	92.7
80°	58.3	64.0	63.2	53.3	48.4
82.5°	33.6	37.7	32.0	23.8	17.2
85°	16.4	17.2	13.1	10.7	9.0
87.5°	5.7	6.6	5.7	4.9	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)