

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: P183387

Luminaire Tested: **SGI-G-12-4-LD4-2-STD-CA125-FA**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P183387  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34503)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: SGI-G-12-4-LD4-2-STD-CA125-FA  
Description:  
Light Source: 2UT217042A8404A  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5441.0 lumens  
Efficiency: N/A  
Efficacy: 78.6 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 0.75' x L: 3.83' x H: 0')  
CIE Type: Direct

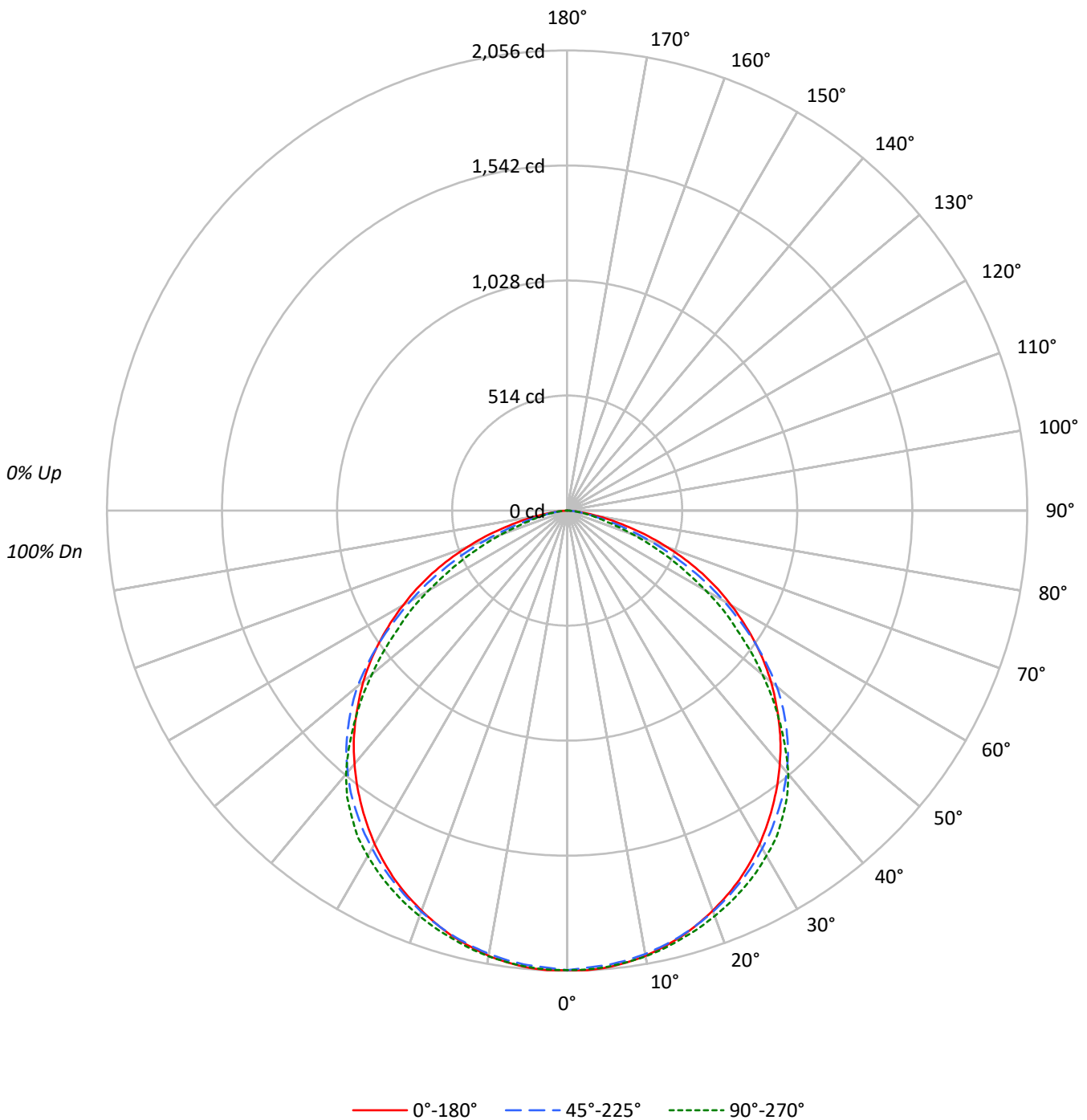
Input Watts (W): 69.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	96	99	96	93		95	93	90		91	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	75	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	68	64	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	77	65	56	50	75	64	56	50	62	55	49		60	54	49		58	52	48	46
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53	47	42	40
7	66	53	45	39	65	52	44	38	51	43	38		49	43	38		48	42	38	36
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31		42	35	31		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

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

	0°	45°	90°
0°	7687	7687	7687
5°	7701	7661	7692
10°	7681	7647	7687
15°	7637	7625	7675
20°	7579	7596	7680
25°	7519	7567	7696
30°	7436	7536	7702
35°	7333	7505	7659
40°	7224	7456	7512
45°	7091	7343	7126
50°	6926	7122	6630
55°	6685	6664	6026
60°	6342	6053	5352
65°	5904	5256	4500
70°	5157	4258	3459
75°	4120	3015	2398
80°	2796	1910	1859
85°	1267	1233	1164



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	194.3	3.6
10°-20°	557.0	10.2
20°-30°	847.4	15.6
30°-40°	1027.3	18.9
40°-50°	1049.9	19.3
50°-60°	891.9	16.4
60°-70°	590.6	10.9
70°-80°	242.5	4.5
80°-90°	40.0	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°	1598.8	29.4
0°-40°	2626.0	48.3
0°-60°	4567.8	84.0
0°-90°	5441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	2049	2047	2038	2048	2047	195
15°	1970	1970	1967	1982	1980	556
25°	1820	1822	1832	1859	1863	838
35°	1604	1615	1642	1677	1676	1004
45°	1339	1355	1387	1369	1346	1032
55°	1024	1047	1021	958	923	914
65°	666	677	593	531	508	656
75°	285	272	208	169	166	308
85°	30	27	29	28	27	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2053.3	2053.3	2053.3	2053.3	2053.3
2.5°	2055.7	2053.3	2044.2	2053.3	2052.4
5°	2049.2	2046.7	2038.5	2047.5	2046.7
7.5°	2036.9	2034.4	2027.0	2036.9	2036.0
10°	2020.4	2017.2	2011.4	2022.1	2022.1
12.5°	1995.8	1996.6	1990.9	2003.2	2004.0
15°	1970.4	1969.6	1967.1	1981.9	1980.2
17.5°	1938.4	1939.2	1938.4	1954.8	1956.4
20°	1902.3	1903.1	1906.4	1925.2	1927.7
22.5°	1862.9	1864.5	1871.1	1894.9	1897.3
25°	1820.2	1821.8	1831.7	1858.8	1862.9
27.5°	1771.8	1775.9	1789.8	1818.6	1825.1
30°	1720.1	1725.0	1743.1	1775.9	1781.6
32.5°	1663.5	1671.7	1695.5	1729.1	1736.5
35°	1604.4	1615.0	1642.1	1677.4	1675.8
37.5°	1542.8	1555.1	1588.0	1611.8	1614.2
40°	1478.0	1491.9	1525.6	1544.5	1537.1
42.5°	1411.5	1423.8	1460.8	1464.0	1444.3
45°	1339.3	1354.9	1386.9	1368.8	1345.9
47.5°	1263.8	1284.3	1308.1	1269.5	1246.6
50°	1189.1	1208.8	1222.8	1167.0	1138.2
52.5°	1107.9	1127.6	1121.8	1061.9	1034.0
55°	1024.2	1047.1	1020.9	957.7	923.2
57.5°	936.4	962.6	912.6	844.4	828.0
60°	846.9	870.7	808.3	741.0	714.8
62.5°	759.1	775.5	704.1	632.7	606.5
65°	666.4	677.0	593.3	531.0	508.0
67.5°	569.5	573.6	491.6	433.3	407.9
70°	471.1	464.5	389.0	334.0	316.0
72.5°	381.6	366.8	292.2	242.9	229.0
75°	284.8	271.6	208.4	169.1	165.8
77.5°	203.5	187.9	137.0	125.6	125.6
80°	129.7	112.4	88.6	87.8	86.2
82.5°	71.4	59.1	54.2	55.0	53.3
85°	29.5	27.1	28.7	27.9	27.1
87.5°	7.4	10.7	12.3	14.0	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)