

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: P183391

Luminaire Tested: **SGI-G-24-2-LD4-3-STD-CA125-FA**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183391
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P34505)
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-LD4-3-STD-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4496.1 lumens
Efficiency: N/A
Efficacy: 86.6 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

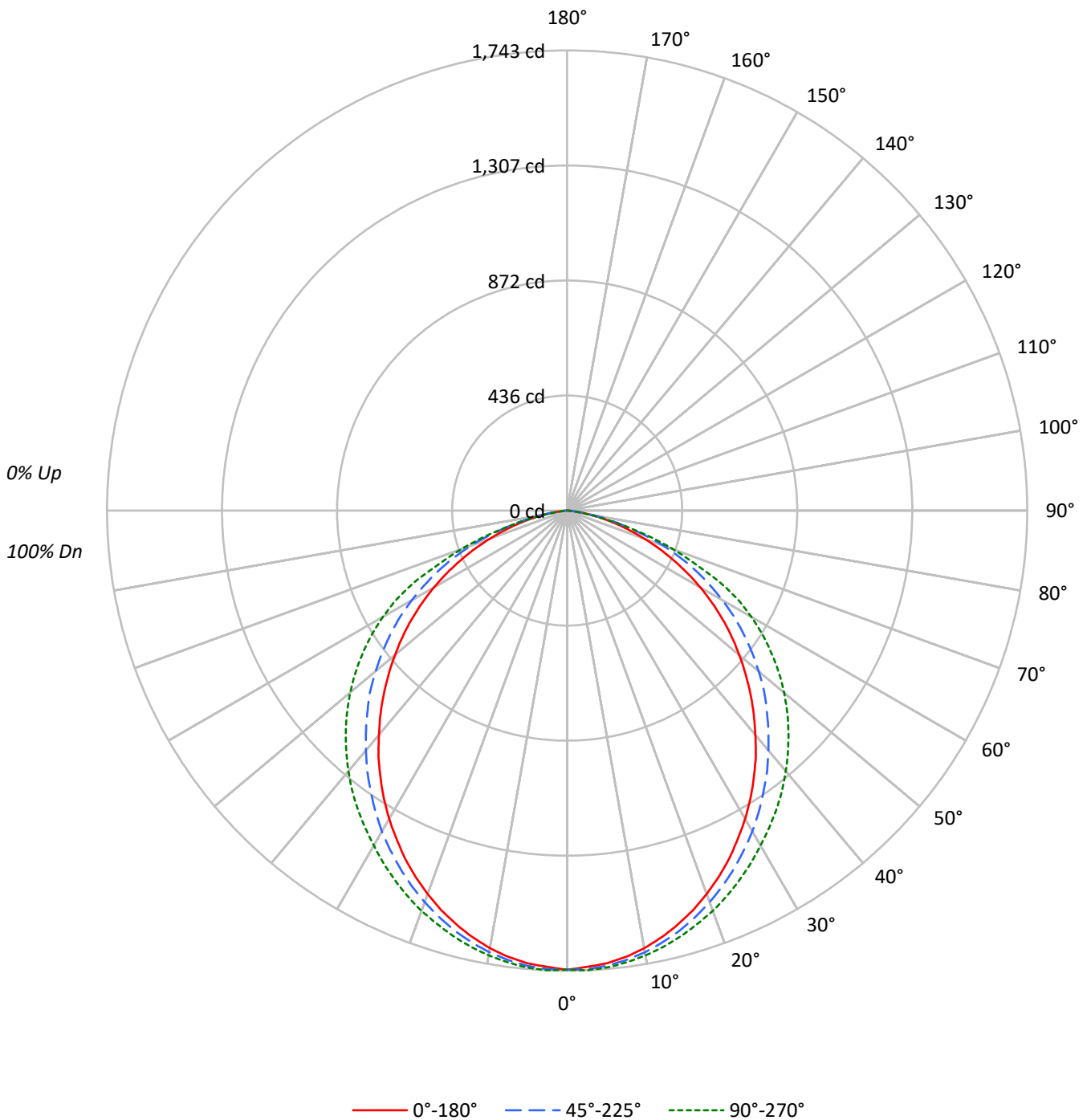
Input Watts (W): 51.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	83	79	76	80	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	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	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	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	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°	5569	5569	5569
5°	5532	5564	5585
10°	5473	5524	5564
15°	5379	5461	5532
20°	5266	5378	5498
25°	5136	5286	5457
30°	4986	5189	5417
35°	4822	5072	5403
40°	4635	4957	5386
45°	4449	4843	5370
50°	4240	4718	5344
55°	4018	4564	5283
60°	3732	4352	5162
65°	3358	4061	4800
70°	2920	3626	4011
75°	2335	2803	2812
80°	1619	1770	1363
85°	845	753	514



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.1	3.6
10°-20°	464.1	10.3
20°-30°	689.7	15.3
30°-40°	814.7	18.1
40°-50°	830.2	18.5
50°-60°	737.1	16.4
60°-70°	529.3	11.8
70°-80°	235.3	5.2
80°-90°	31.7	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°	1317.8	29.3
0°-40°	2132.5	47.4
0°-60°	3699.8	82.3
0°-90°	4496.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1739	1739	1739	1739	1739	
5°	1721	1724	1731	1736	1737	163
15°	1622	1630	1647	1663	1668	457
25°	1453	1466	1496	1530	1544	669
35°	1233	1250	1297	1353	1382	771
45°	982	1004	1069	1148	1186	757
55°	720	751	817	904	946	642
65°	443	477	536	608	634	441
75°	189	206	226	231	227	203
85°	23	25	20	16	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1738.9	1738.9	1738.9	1738.9	1738.9
2.5°	1729.9	1732.4	1738.1	1741.4	1743.0
5°	1720.9	1724.2	1730.7	1735.7	1737.3
7.5°	1705.3	1708.6	1716.8	1724.2	1725.8
10°	1683.1	1687.2	1698.7	1708.6	1711.0
12.5°	1655.2	1661.0	1674.1	1687.2	1691.3
15°	1622.4	1629.8	1647.0	1663.4	1668.4
17.5°	1586.3	1594.5	1614.2	1633.1	1641.3
20°	1545.3	1554.3	1578.1	1603.5	1613.4
22.5°	1501.0	1511.6	1538.7	1567.4	1580.6
25°	1453.4	1466.5	1496.0	1529.7	1544.4
27.5°	1400.8	1414.0	1450.1	1488.6	1506.7
30°	1348.3	1361.4	1403.3	1444.3	1464.8
32.5°	1292.5	1308.9	1351.6	1400.0	1423.8
35°	1233.4	1249.8	1297.4	1353.2	1382.0
37.5°	1173.5	1190.7	1244.1	1306.5	1337.6
40°	1108.7	1130.8	1185.8	1254.8	1288.4
42.5°	1046.3	1066.8	1127.6	1203.1	1238.3
45°	982.3	1003.6	1069.3	1148.1	1185.8
47.5°	916.7	940.5	1011.8	1089.8	1130.8
50°	851.0	876.4	947.0	1029.9	1072.6
52.5°	786.2	816.5	883.0	968.4	1011.8
55°	719.7	750.9	817.4	904.3	946.2
57.5°	651.6	682.0	750.1	834.6	879.7
60°	582.7	614.7	679.5	759.1	805.9
62.5°	514.5	543.3	607.3	685.2	728.7
65°	443.1	476.8	535.9	608.1	633.5
67.5°	379.1	404.6	462.0	507.2	519.5
70°	311.8	334.0	387.3	409.5	428.4
72.5°	248.7	266.7	304.5	320.0	326.6
75°	188.7	206.0	226.5	231.4	227.3
77.5°	132.9	149.4	158.4	150.2	141.2
80°	87.8	97.7	96.0	82.9	73.9
82.5°	50.9	55.0	47.6	34.5	27.9
85°	23.0	24.6	20.5	16.4	14.0
87.5°	9.0	9.8	8.2	6.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)