

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: P183388

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183388
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-LO-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

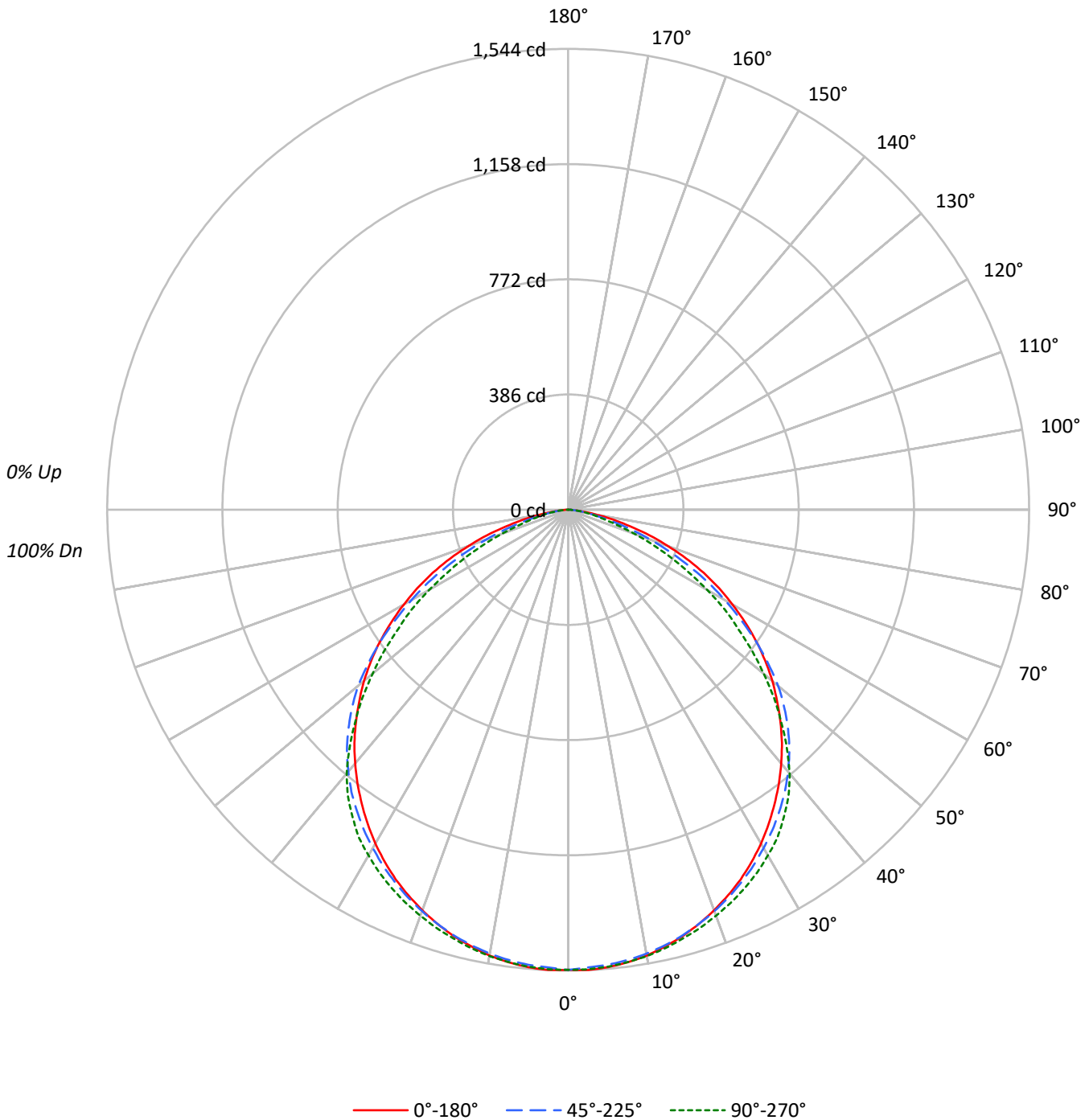
Lumens per Lamp: N/A
Luminaire Lumens: 4085.5 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.38
Luminous Opening: Rectangular (W 0.75' x L: 3.83' x H: 0')
CIE Type: Direct

Input Watts (W): 49.4
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°	5772	5772	5772
5°	5783	5753	5776
10°	5768	5742	5773
15°	5735	5725	5763
20°	5691	5703	5767
25°	5646	5682	5778
30°	5584	5658	5784
35°	5506	5635	5751
40°	5424	5599	5641
45°	5325	5514	5351
50°	5201	5348	4978
55°	5020	5004	4525
60°	4762	4545	4019
65°	4433	3947	3379
70°	3872	3198	2597
75°	3093	2264	1801
80°	2100	1436	1395
85°	954	928	872



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.9	3.6
10°-20°	418.2	10.2
20°-30°	636.3	15.6
30°-40°	771.4	18.9
40°-50°	788.4	19.3
50°-60°	669.7	16.4
60°-70°	443.5	10.9
70°-80°	182.1	4.5
80°-90°	30.0	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°	1200.5	29.4
0°-40°	1971.8	48.3
0°-60°	3429.9	84.0
0°-90°	4085.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4085.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1539	1537	1531	1538	1537	146
15°	1480	1479	1477	1488	1487	417
25°	1367	1368	1375	1396	1399	629
35°	1205	1213	1233	1260	1258	754
45°	1006	1017	1041	1028	1011	775
55°	769	786	767	719	693	686
65°	500	508	446	399	381	493
75°	214	204	156	127	124	231
85°	22	20	22	21	20	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1541.8	1541.8	1541.8	1541.8	1541.8
2.5°	1543.6	1541.8	1535.0	1541.8	1541.2
5°	1538.7	1536.8	1530.7	1537.5	1536.8
7.5°	1529.4	1527.6	1522.1	1529.4	1528.8
10°	1517.1	1514.7	1510.3	1518.4	1518.4
12.5°	1498.6	1499.3	1494.9	1504.2	1504.8
15°	1479.5	1478.9	1477.1	1488.2	1486.9
17.5°	1455.5	1456.1	1455.5	1467.8	1469.1
20°	1428.4	1429.0	1431.5	1445.6	1447.5
22.5°	1398.8	1400.0	1405.0	1422.8	1424.7
25°	1366.8	1368.0	1375.4	1395.7	1398.8
27.5°	1330.4	1333.5	1344.0	1365.5	1370.5
30°	1291.6	1295.3	1308.8	1333.5	1337.8
32.5°	1249.1	1255.2	1273.1	1298.4	1303.9
35°	1204.7	1212.7	1233.0	1259.5	1258.3
37.5°	1158.5	1167.7	1192.4	1210.2	1212.1
40°	1109.8	1120.3	1145.5	1159.7	1154.2
42.5°	1059.9	1069.1	1096.9	1099.3	1084.5
45°	1005.7	1017.4	1041.4	1027.8	1010.6
47.5°	949.0	964.4	982.2	953.3	936.0
50°	892.9	907.7	918.2	876.3	854.7
52.5°	831.9	846.7	842.4	797.4	776.4
55°	769.0	786.3	766.6	719.1	693.2
57.5°	703.1	722.8	685.2	634.1	621.8
60°	635.9	653.8	607.0	556.4	536.7
62.5°	570.0	582.3	528.7	475.1	455.4
65°	500.4	508.4	445.5	398.7	381.4
67.5°	427.7	430.7	369.1	325.4	306.3
70°	353.7	348.8	292.1	250.8	237.2
72.5°	286.5	275.4	219.4	182.4	171.9
75°	213.8	204.0	156.5	126.9	124.5
77.5°	152.8	141.1	102.9	94.3	94.3
80°	97.4	84.4	66.6	65.9	64.7
82.5°	53.6	44.4	40.7	41.3	40.1
85°	22.2	20.3	21.6	21.0	20.3
87.5°	5.5	8.0	9.2	10.5	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)