

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: P183392

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P183392
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-LO-CA125-FA
Description:
Light Source: 2UT217042A8404A
Ballast/Driver: ELECTRONIC DRIVER

Summary

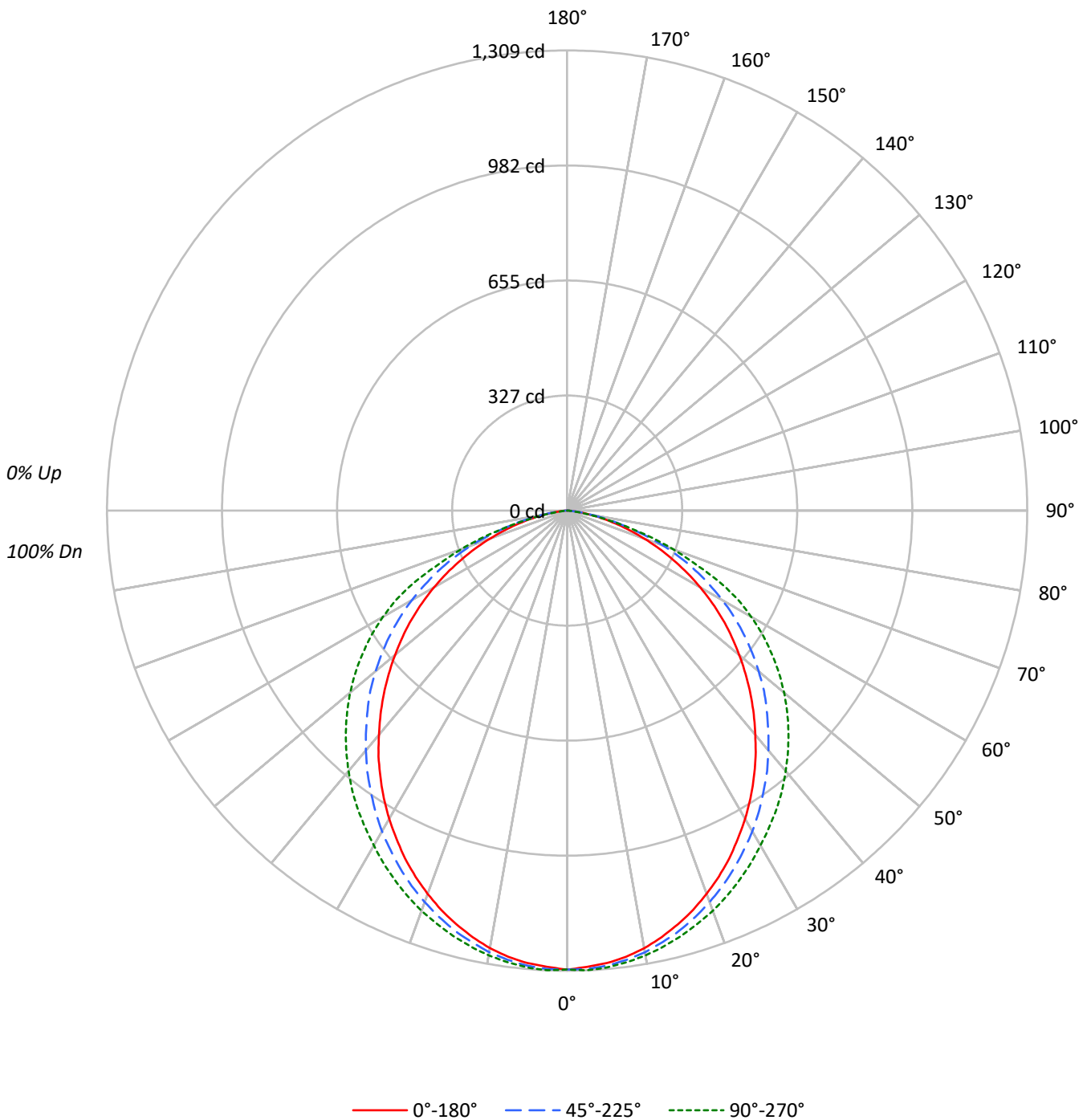
Lumens per Lamp: N/A
Luminaire Lumens: 3376.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.25 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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°	4181	4181	4181
5°	4154	4178	4194
10°	4110	4148	4178
15°	4039	4100	4153
20°	3954	4038	4129
25°	3856	3969	4098
30°	3744	3896	4067
35°	3621	3809	4057
40°	3480	3722	4044
45°	3341	3636	4033
50°	3184	3543	4013
55°	3017	3427	3967
60°	2802	3268	3876
65°	2522	3049	3605
70°	2193	2723	3012
75°	1753	2105	2112
80°	1215	1330	1024
85°	636	566	386



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.6
10°-20°	348.5	10.3
20°-30°	517.8	15.3
30°-40°	611.8	18.1
40°-50°	623.4	18.5
50°-60°	553.5	16.4
60°-70°	397.4	11.8
70°-80°	176.6	5.2
80°-90°	23.8	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°	989.5	29.3
0°-40°	1601.3	47.4
0°-60°	2778.1	82.3
0°-90°	3376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1292	1295	1300	1303	1304	122
15°	1218	1224	1237	1249	1253	343
25°	1091	1101	1123	1149	1160	502
35°	926	938	974	1016	1038	579
45°	738	754	803	862	890	569
55°	540	564	614	679	710	482
65°	333	358	402	457	476	331
75°	142	155	170	174	171	152
85°	17	18	15	12	10	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1305.7	1305.7	1305.7	1305.7	1305.7
2.5°	1299.0	1300.8	1305.1	1307.6	1308.8
5°	1292.2	1294.7	1299.6	1303.3	1304.5
7.5°	1280.5	1282.9	1289.1	1294.7	1295.9
10°	1263.8	1266.9	1275.5	1282.9	1284.8
12.5°	1242.9	1247.2	1257.1	1266.9	1270.0
15°	1218.2	1223.8	1236.7	1249.1	1252.7
17.5°	1191.1	1197.3	1212.1	1226.3	1232.4
20°	1160.3	1167.1	1185.0	1204.1	1211.5
22.5°	1127.0	1135.1	1155.4	1177.0	1186.8
25°	1091.3	1101.2	1123.3	1148.6	1159.7
27.5°	1051.9	1061.7	1088.8	1117.8	1131.4
30°	1012.4	1022.3	1053.7	1084.5	1099.9
32.5°	970.5	982.8	1014.9	1051.2	1069.1
35°	926.2	938.5	974.2	1016.1	1037.7
37.5°	881.2	894.1	934.2	981.0	1004.4
40°	832.5	849.1	890.4	942.2	967.4
42.5°	785.7	801.1	846.7	903.4	929.9
45°	737.6	753.6	802.9	862.1	890.4
47.5°	688.3	706.2	759.8	818.3	849.1
50°	639.0	658.1	711.1	773.3	805.4
52.5°	590.3	613.1	663.0	727.1	759.8
55°	540.4	563.8	613.7	679.1	710.5
57.5°	489.3	512.1	563.2	626.7	660.6
60°	437.5	461.5	510.2	570.0	605.1
62.5°	386.4	407.9	456.0	514.5	547.2
65°	332.8	358.0	402.4	456.6	475.7
67.5°	284.7	303.8	346.9	380.8	390.1
70°	234.2	250.8	290.8	307.5	321.7
72.5°	186.7	200.3	228.6	240.3	245.3
75°	141.7	154.7	170.1	173.8	170.7
77.5°	99.8	112.1	118.9	112.8	106.0
80°	65.9	73.3	72.1	62.2	55.5
82.5°	38.2	41.3	35.7	25.9	21.0
85°	17.3	18.5	15.4	12.3	10.5
87.5°	6.8	7.4	6.2	4.9	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)