

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973812

Luminaire Tested: FLR2-22-25HE-L835-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973812
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25HE-L835-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

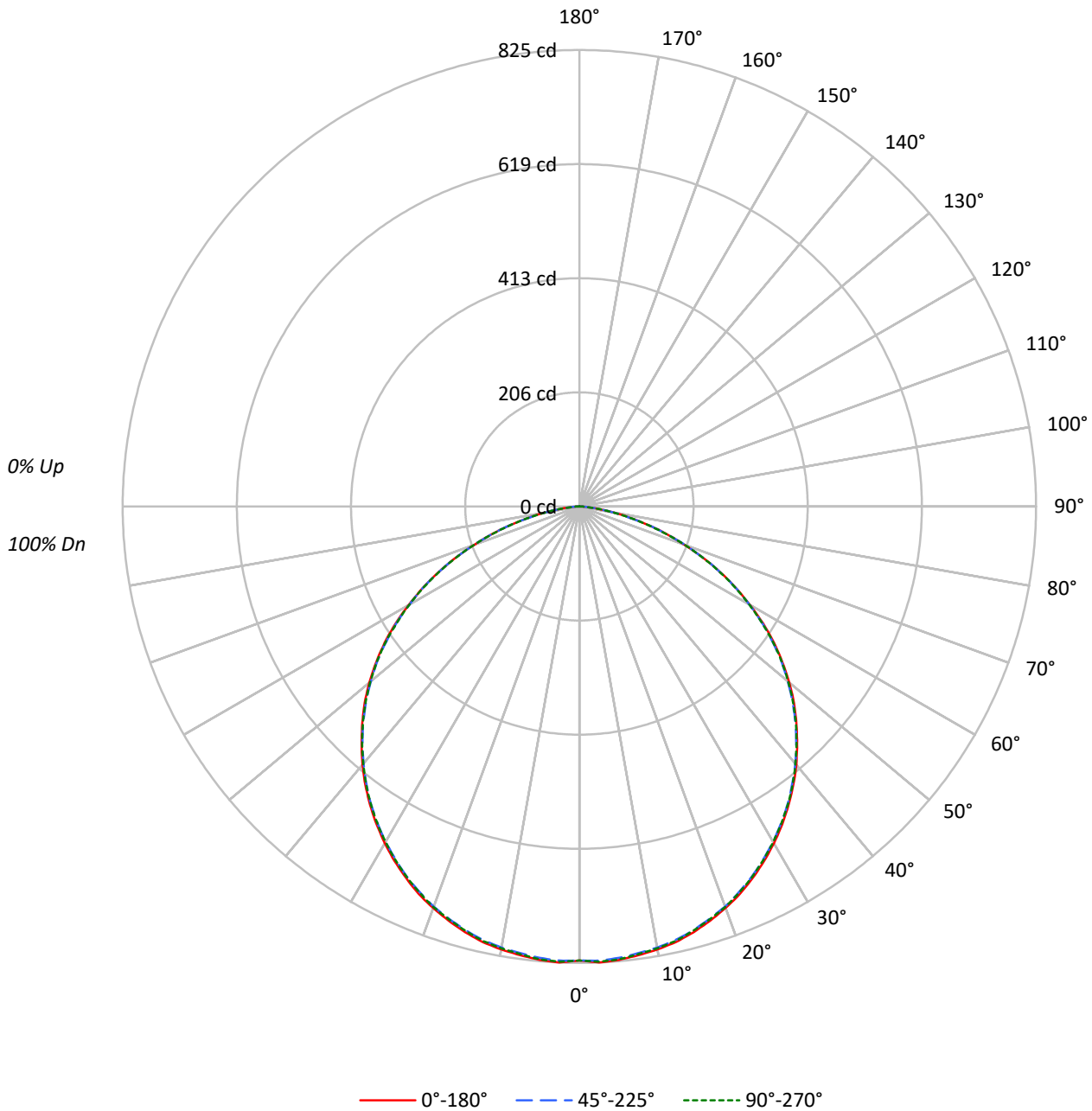
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2294.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P973812
CATALOG NUMBER: FLR2-22-25HE-L835-CP125

Luminous Intensity Polar Plot





TEST NUMBER: P973812
 CATALOG NUMBER: FLR2-22-25HE-L835-CP125

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	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2208	2208	2208
5°	2222	2212	2219
10°	2222	2212	2216
15°	2220	2210	2213
20°	2212	2203	2206
25°	2200	2191	2193
30°	2184	2175	2176
35°	2165	2156	2158
40°	2142	2131	2133
45°	2110	2100	2105
50°	2073	2058	2062
55°	2014	1997	2005
60°	1915	1907	1907
65°	1788	1785	1778
70°	1583	1591	1587
75°	1333	1323	1312
80°	958	942	934
85°	500	500	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2110 cd/sqm



TEST NUMBER: P973812
 CATALOG NUMBER: FLR2-22-25HE-L835-CP125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.4
10°-20°	223.4	9.7
20°-30°	339.6	14.8
30°-40°	410.4	17.9
40°-50°	426.0	18.6
50°-60°	380.9	16.6
60°-70°	276.9	12.1
70°-80°	136.2	5.9
80°-90°	23.6	1.0
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°	640.7	27.9
0°-40°	1051.1	45.8
0°-60°	1858.0	81.0
0°-90°	2294.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2294.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	821	821	821	821	821	
5°	823	813	819	816	822	78
15°	797	788	793	791	794	225
25°	741	733	738	736	738	342
35°	659	654	656	657	657	412
45°	554	552	552	553	553	428
55°	429	427	426	427	427	383
65°	281	282	280	280	279	277
75°	128	129	127	128	126	136
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



TEST NUMBER: P973812
 CATALOG NUMBER: FLR2-22-25HE-L835-CP125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.6	820.6	820.6	820.6	820.6
2.5°	825.1	815.5	821.6	818.0	823.6
5°	822.6	813.0	819.0	816.0	821.6
7.5°	818.0	808.4	814.5	811.4	816.0
10°	813.0	802.8	809.4	806.4	810.9
12.5°	806.4	796.7	802.8	800.3	804.3
15°	796.7	787.6	793.2	791.2	794.2
17.5°	785.1	776.0	781.5	780.0	782.5
20°	772.4	763.8	769.4	767.8	770.4
22.5°	758.2	749.1	754.2	753.1	755.2
25°	741.0	732.9	737.9	736.4	738.5
27.5°	722.7	715.1	719.2	719.2	720.2
30°	703.0	695.9	699.9	699.9	700.4
32.5°	681.7	676.1	678.6	679.2	679.2
35°	658.9	654.3	656.3	656.9	656.9
37.5°	635.1	630.5	632.0	633.0	633.0
40°	609.7	605.7	606.7	607.7	607.2
42.5°	582.3	579.3	579.8	580.8	580.8
45°	554.5	551.9	551.9	553.0	553.0
47.5°	526.1	523.6	522.5	523.6	523.6
50°	495.2	492.6	491.6	492.6	492.6
52.5°	462.7	460.2	460.2	460.2	460.7
55°	429.3	426.8	425.7	426.8	427.3
57.5°	393.8	392.8	391.3	391.8	390.3
60°	355.8	355.8	354.3	355.3	354.3
62.5°	318.8	319.8	318.3	318.3	317.3
65°	280.8	281.8	280.3	280.3	279.3
67.5°	241.8	243.3	241.3	241.3	240.2
70°	201.2	204.3	202.2	202.7	201.7
72.5°	164.7	166.2	164.2	164.2	163.2
75°	128.2	129.2	127.2	127.7	126.2
77.5°	92.2	93.8	91.7	92.2	91.7
80°	61.8	62.3	60.8	61.3	60.3
82.5°	36.0	36.5	36.0	35.5	35.0
85°	16.2	16.7	16.2	16.2	15.7
87.5°	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)