

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: P973998

Luminaire Tested: FLR2-22-25HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973998
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-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

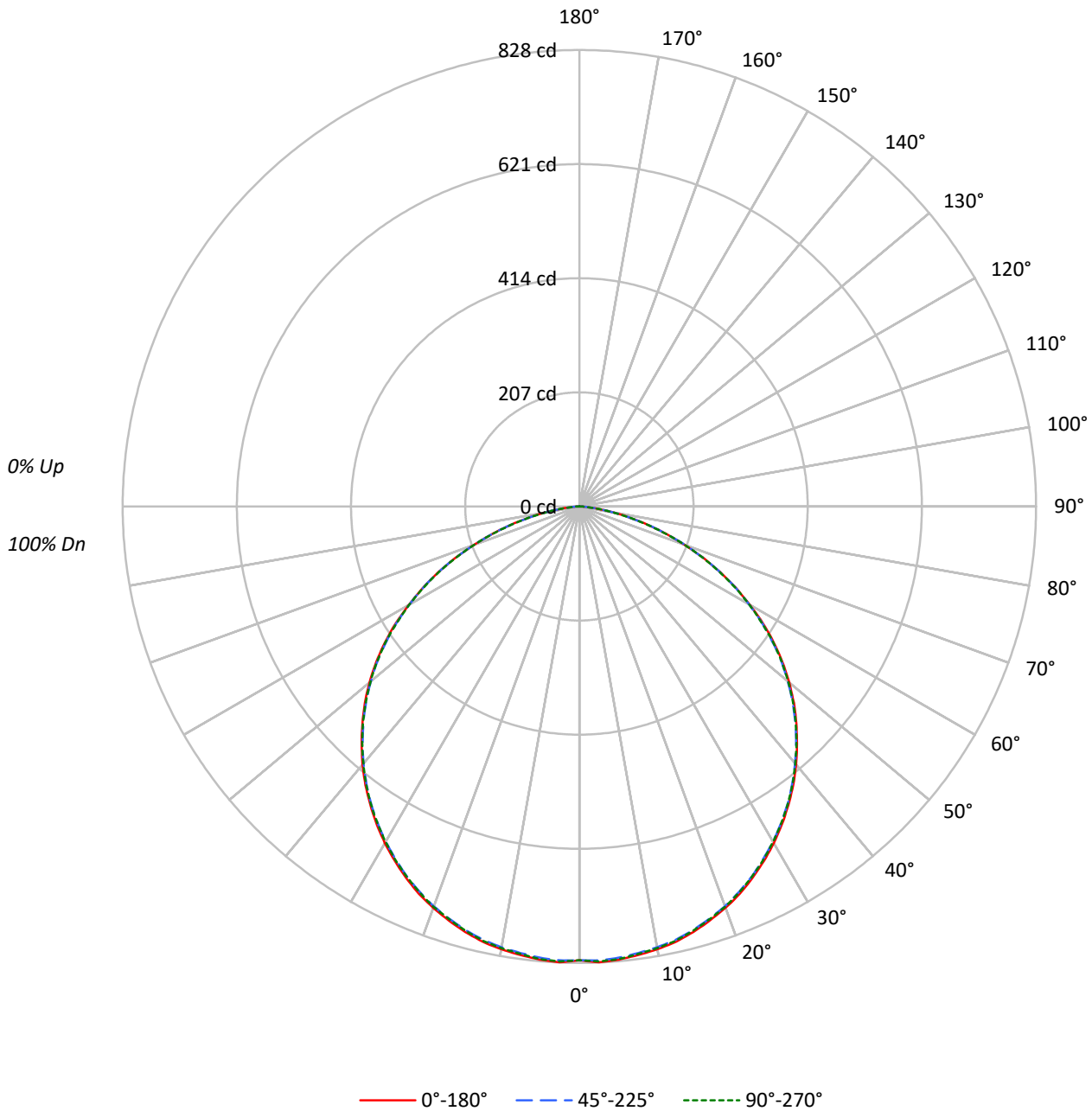
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2301.9 lumens
Efficiency: N/A
Efficacy: 119.9 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 (Ain): 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

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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	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°	2215	2215	2215
5°	2229	2219	2226
10°	2228	2219	2223
15°	2226	2217	2220
20°	2219	2210	2213
25°	2207	2198	2200
30°	2191	2182	2183
35°	2171	2163	2165
40°	2148	2138	2140
45°	2117	2107	2111
50°	2079	2065	2069
55°	2020	2004	2011
60°	1921	1913	1913
65°	1794	1791	1784
70°	1588	1596	1592
75°	1337	1327	1316
80°	961	945	938
85°	503	503	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2117 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.9	3.4
10°-20°	224.2	9.7
20°-30°	340.6	14.8
30°-40°	411.7	17.9
40°-50°	427.3	18.6
50°-60°	382.1	16.6
60°-70°	277.8	12.1
70°-80°	136.6	5.9
80°-90°	23.7	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°	642.7	27.9
0°-40°	1054.4	45.8
0°-60°	1863.8	81.0
0°-90°	2301.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	823	823	823	823	823	
5°	825	816	822	819	824	78
15°	799	790	796	794	797	226
25°	743	735	740	739	741	343
35°	661	656	658	659	659	413
45°	556	554	554	555	555	429
55°	431	428	427	428	429	384
65°	282	283	281	281	280	278
75°	129	130	128	128	127	137
85°	16	17	16	16	16	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.1	823.1	823.1	823.1	823.1
2.5°	827.7	818.0	824.1	820.6	826.2
5°	825.2	815.5	821.6	818.6	824.1
7.5°	820.6	810.9	817.0	814.0	818.6
10°	815.5	805.3	811.9	808.9	813.5
12.5°	808.9	799.2	805.3	802.8	806.9
15°	799.2	790.1	795.7	793.6	796.7
17.5°	787.5	778.4	784.0	782.5	785.0
20°	774.8	766.2	771.8	770.3	772.8
22.5°	760.6	751.4	756.5	755.5	757.5
25°	743.3	735.2	740.3	738.7	740.8
27.5°	725.0	717.4	721.4	721.4	722.5
30°	705.2	698.1	702.1	702.1	702.6
32.5°	683.8	678.2	680.8	681.3	681.3
35°	660.9	656.4	658.4	658.9	658.9
37.5°	637.0	632.5	634.0	635.0	635.0
40°	611.6	607.6	608.6	609.6	609.1
42.5°	584.2	581.1	581.6	582.6	582.6
45°	556.2	553.7	553.7	554.7	554.7
47.5°	527.7	525.2	524.2	525.2	525.2
50°	496.7	494.2	493.2	494.2	494.2
52.5°	464.2	461.6	461.6	461.6	462.2
55°	430.6	428.1	427.1	428.1	428.6
57.5°	395.0	394.0	392.5	393.0	391.5
60°	356.9	356.9	355.4	356.4	355.4
62.5°	319.8	320.8	319.3	319.3	318.3
65°	281.7	282.7	281.2	281.2	280.1
67.5°	242.5	244.0	242.0	242.0	241.0
70°	201.8	204.9	202.9	203.4	202.4
72.5°	165.2	166.8	164.7	164.7	163.7
75°	128.6	129.6	127.6	128.1	126.6
77.5°	92.5	94.1	92.0	92.5	92.0
80°	62.0	62.5	61.0	61.5	60.5
82.5°	36.1	36.6	36.1	35.6	35.1
85°	16.3	16.8	16.3	16.3	15.8
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)