

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: P973992

Luminaire Tested: FLR2-22-25HE-L850-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973992
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

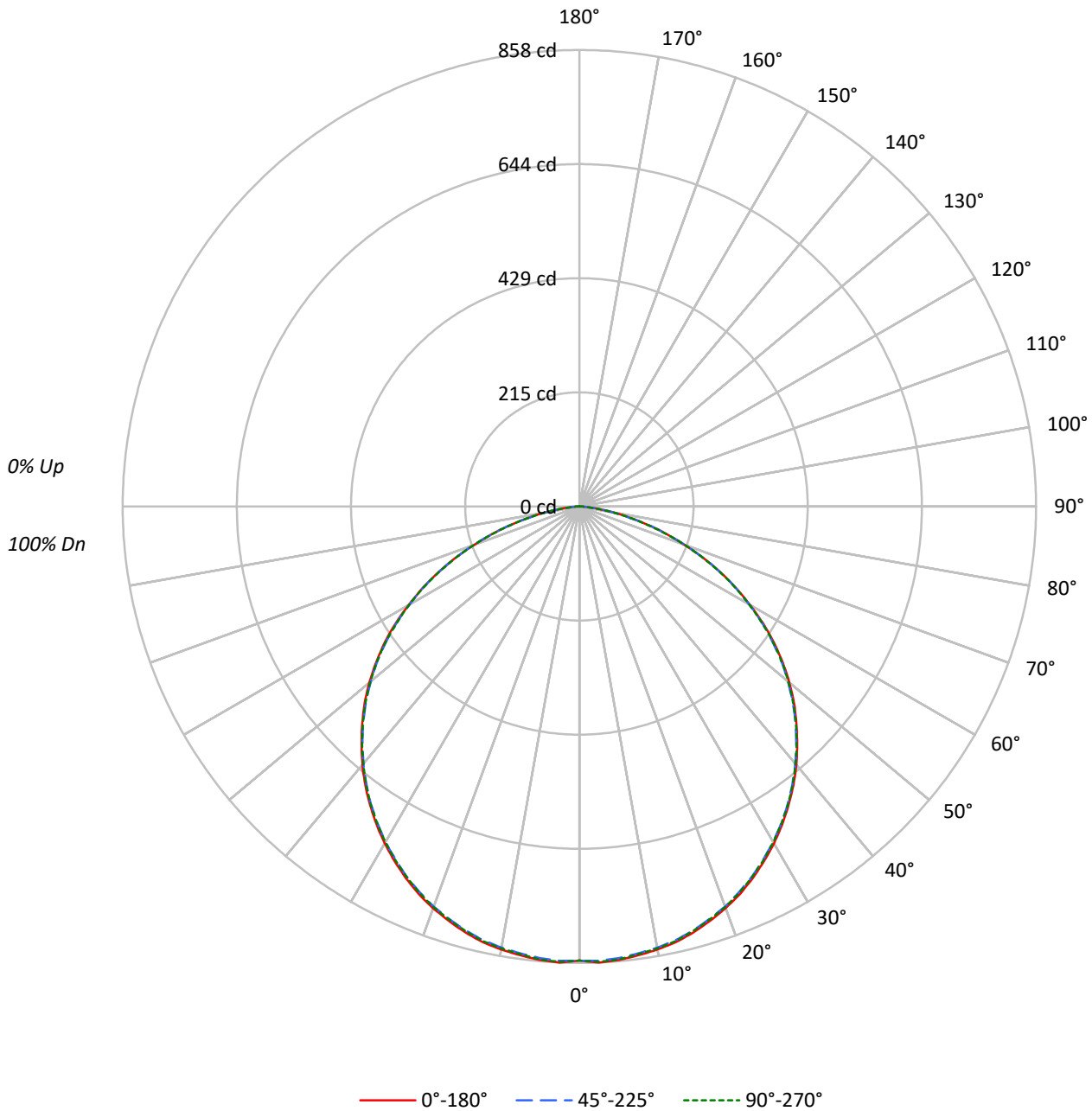
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2387.0 lumens
Efficiency: N/A
Efficacy: 124.3 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										
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	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						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2297	2297	2297
5°	2311	2301	2308
10°	2311	2301	2305
15°	2309	2299	2302
20°	2301	2292	2295
25°	2289	2279	2281
30°	2272	2262	2264
35°	2252	2243	2245
40°	2228	2217	2219
45°	2195	2185	2189
50°	2156	2141	2146
55°	2095	2078	2085
60°	1992	1983	1983
65°	1860	1857	1850
70°	1647	1655	1651
75°	1387	1376	1365
80°	996	981	972
85°	522	522	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2195 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.8	3.4
10°-20°	232.4	9.7
20°-30°	353.2	14.8
30°-40°	426.9	17.9
40°-50°	443.1	18.6
50°-60°	396.2	16.6
60°-70°	288.1	12.1
70°-80°	141.6	5.9
80°-90°	24.6	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°	666.5	27.9
0°-40°	1093.4	45.8
0°-60°	1932.7	81.0
0°-90°	2387.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2387.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	854	854	854	854	854	
5°	856	846	852	849	855	81
15°	829	819	825	823	826	234
25°	771	762	768	766	768	355
35°	685	681	683	683	683	429
45°	577	574	574	575	575	445
55°	447	444	443	444	444	398
65°	292	293	292	292	290	288
75°	133	134	132	133	131	142
85°	17	17	17	17	16	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	853.6	853.6	853.6	853.6	853.6
2.5°	858.3	848.3	854.6	850.9	856.7
5°	855.7	845.7	852.0	848.8	854.6
7.5°	850.9	840.9	847.2	844.1	848.8
10°	845.7	835.1	842.0	838.8	843.5
12.5°	838.8	828.8	835.1	832.5	836.7
15°	828.8	819.3	825.1	823.0	826.2
17.5°	816.7	807.2	813.0	811.4	814.0
20°	803.5	794.5	800.3	798.7	801.4
22.5°	788.7	779.2	784.5	783.4	785.6
25°	770.8	762.4	767.6	766.0	768.2
27.5°	751.8	743.9	748.1	748.1	749.2
30°	731.3	723.9	728.1	728.1	728.6
32.5°	709.1	703.3	705.9	706.5	706.5
35°	685.4	680.6	682.7	683.3	683.3
37.5°	660.6	655.9	657.4	658.5	658.5
40°	634.2	630.0	631.1	632.1	631.6
42.5°	605.8	602.6	603.1	604.2	604.2
45°	576.8	574.1	574.1	575.2	575.2
47.5°	547.3	544.6	543.6	544.6	544.6
50°	515.1	512.5	511.4	512.5	512.5
52.5°	481.4	478.7	478.7	478.7	479.2
55°	446.6	443.9	442.9	443.9	444.4
57.5°	409.6	408.6	407.0	407.5	406.0
60°	370.1	370.1	368.5	369.6	368.5
62.5°	331.6	332.7	331.1	331.1	330.0
65°	292.1	293.1	291.6	291.6	290.5
67.5°	251.5	253.1	251.0	251.0	249.9
70°	209.3	212.5	210.4	210.9	209.8
72.5°	171.3	172.9	170.8	170.8	169.8
75°	133.4	134.4	132.3	132.9	131.3
77.5°	96.0	97.5	95.4	96.0	95.4
80°	64.3	64.8	63.3	63.8	62.7
82.5°	37.4	38.0	37.4	36.9	36.4
85°	16.9	17.4	16.9	16.9	16.3
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)