

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: P973986

Luminaire Tested: FLR2-22-25HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973986
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

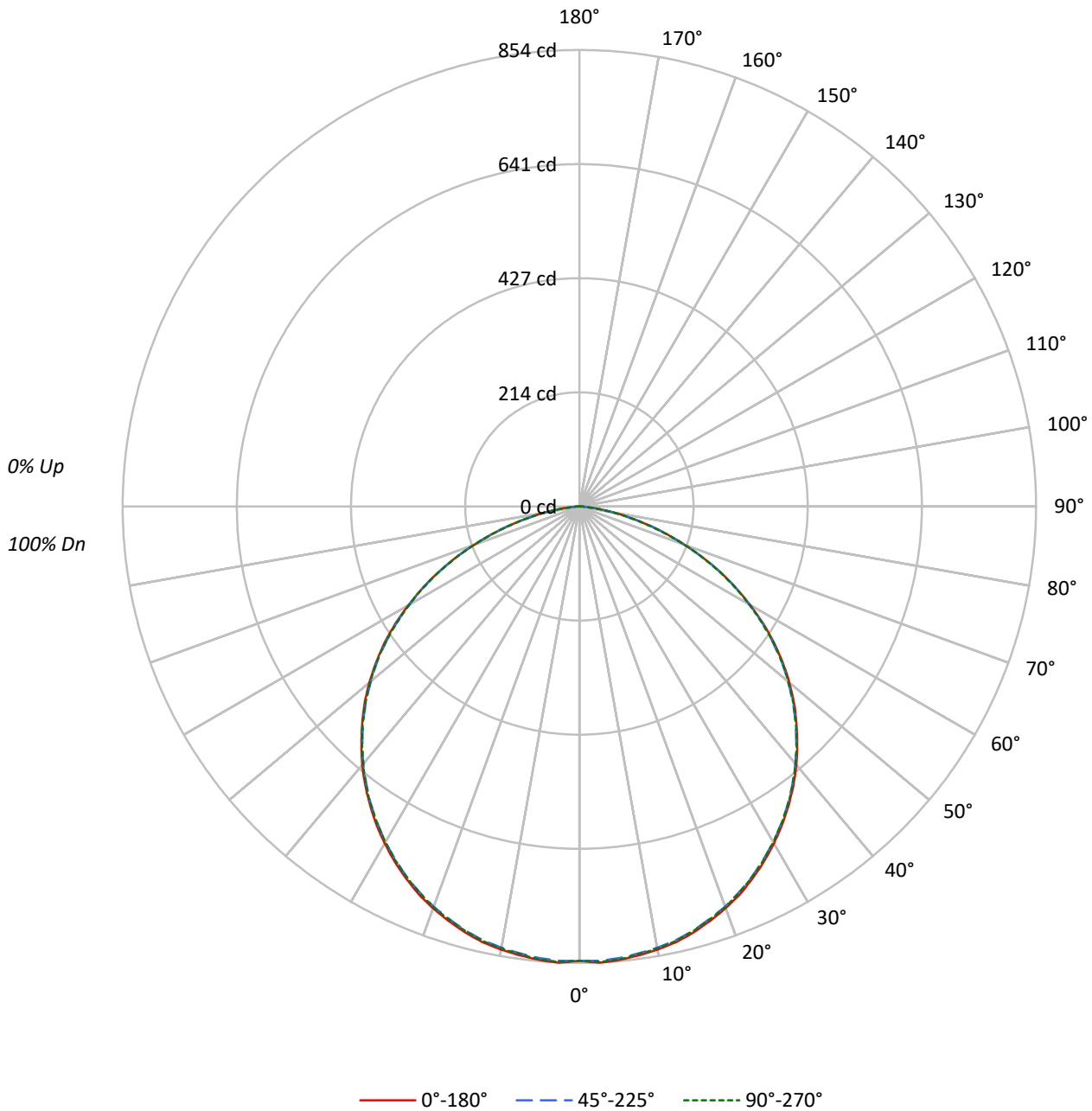
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2376.5 lumens
Efficiency: N/A
Efficacy: 123.8 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	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°	2287	2287	2287
5°	2301	2291	2299
10°	2300	2291	2295
15°	2299	2289	2291
20°	2291	2282	2285
25°	2279	2269	2271
30°	2262	2252	2254
35°	2242	2233	2235
40°	2218	2207	2209
45°	2185	2175	2179
50°	2147	2131	2136
55°	2086	2069	2076
60°	1983	1975	1975
65°	1852	1848	1841
70°	1640	1648	1644
75°	1381	1369	1359
80°	992	976	969
85°	519	519	503

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2185 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.5	3.4
10°-20°	231.4	9.7
20°-30°	351.7	14.8
30°-40°	425.1	17.9
40°-50°	441.2	18.6
50°-60°	394.4	16.6
60°-70°	286.8	12.1
70°-80°	141.0	5.9
80°-90°	24.5	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°	663.5	27.9
0°-40°	1088.6	45.8
0°-60°	1924.2	81.0
0°-90°	2376.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	850	850	850	850	850	
5°	852	842	848	845	851	81
15°	825	816	822	819	822	233
25°	767	759	764	763	765	354
35°	682	678	680	680	680	427
45°	574	572	572	573	573	443
55°	445	442	441	442	442	396
65°	291	292	290	290	289	287
75°	133	134	132	132	131	141
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°	849.8	849.8	849.8	849.8	849.8
2.5°	854.5	844.6	850.9	847.2	853.0
5°	851.9	841.9	848.2	845.1	850.9
7.5°	847.2	837.2	843.5	840.4	845.1
10°	841.9	831.4	838.3	835.1	839.8
12.5°	835.1	825.1	831.4	828.8	833.0
15°	825.1	815.7	821.5	819.4	822.5
17.5°	813.1	803.6	809.4	807.8	810.4
20°	799.9	791.0	796.8	795.2	797.8
22.5°	785.2	775.8	781.0	780.0	782.1
25°	767.4	759.0	764.2	762.7	764.8
27.5°	748.5	740.6	744.8	744.8	745.9
30°	728.0	720.7	724.9	724.9	725.4
32.5°	706.0	700.2	702.8	703.4	703.4
35°	682.4	677.6	679.7	680.3	680.3
37.5°	657.7	653.0	654.5	655.6	655.6
40°	631.4	627.2	628.3	629.3	628.8
42.5°	603.1	600.0	600.5	601.5	601.5
45°	574.2	571.6	571.6	572.7	572.7
47.5°	544.8	542.2	541.2	542.2	542.2
50°	512.8	510.2	509.1	510.2	510.2
52.5°	479.2	476.6	476.6	476.6	477.1
55°	444.6	442.0	440.9	442.0	442.5
57.5°	407.8	406.8	405.2	405.7	404.2
60°	368.5	368.5	366.9	368.0	366.9
62.5°	330.2	331.2	329.6	329.6	328.6
65°	290.8	291.8	290.3	290.3	289.2
67.5°	250.4	251.9	249.8	249.8	248.8
70°	208.4	211.5	209.4	210.0	208.9
72.5°	170.6	172.2	170.1	170.1	169.0
75°	132.8	133.8	131.7	132.3	130.7
77.5°	95.5	97.1	95.0	95.5	95.0
80°	64.0	64.6	63.0	63.5	62.5
82.5°	37.3	37.8	37.3	36.7	36.2
85°	16.8	17.3	16.8	16.8	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)