

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: P973957

Luminaire Tested: FLR2-22-35HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973957
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: FLR2-22-35HE-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

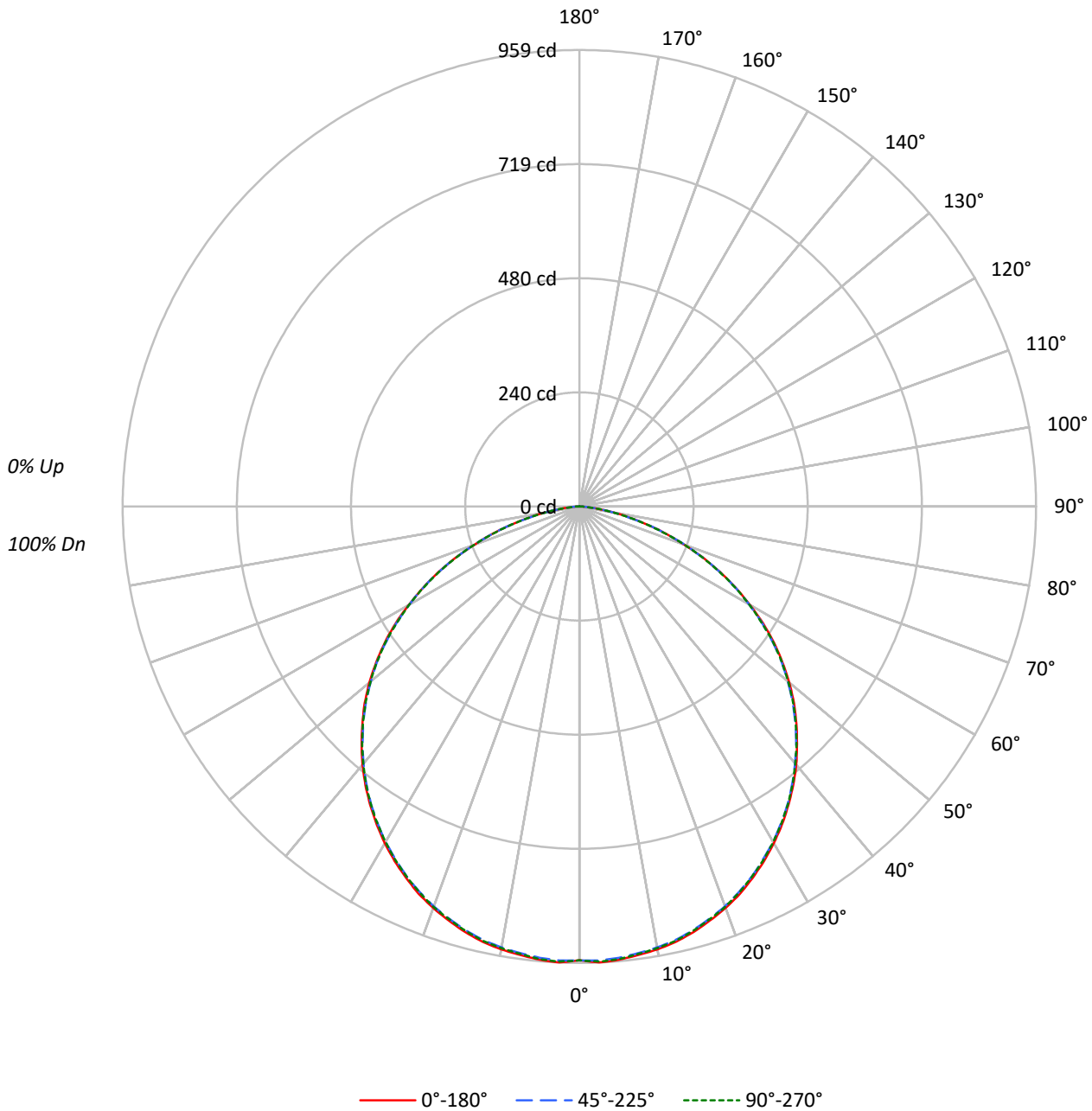
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2666.8 lumens
Efficiency: N/A
Efficacy: 98.0 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): 27.2
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°	2566	2566	2566
5°	2582	2571	2579
10°	2582	2570	2575
15°	2579	2568	2571
20°	2571	2560	2564
25°	2557	2546	2548
30°	2539	2527	2529
35°	2515	2506	2508
40°	2489	2477	2479
45°	2452	2441	2445
50°	2409	2392	2397
55°	2341	2321	2329
60°	2225	2216	2216
65°	2078	2074	2066
70°	1840	1849	1844
75°	1549	1537	1525
80°	1114	1096	1086
85°	580	580	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	3.4
10°-20°	259.7	9.7
20°-30°	394.6	14.8
30°-40°	477.0	17.9
40°-50°	495.1	18.6
50°-60°	442.6	16.6
60°-70°	321.8	12.1
70°-80°	158.2	5.9
80°-90°	27.4	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°	744.6	27.9
0°-40°	1221.6	45.8
0°-60°	2159.3	81.0
0°-90°	2666.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2666.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	956	945	952	948	955	91
15°	926	915	922	919	923	261
25°	861	852	858	856	858	397
35°	766	760	763	763	763	479
45°	644	641	641	643	643	497
55°	499	496	495	496	496	445
65°	326	328	326	326	324	322
75°	149	150	148	148	147	158
85°	19	19	19	19	18	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.6	953.6	953.6	953.6	953.6
2.5°	958.9	947.7	954.8	950.7	957.1
5°	956.0	944.8	951.8	948.3	954.8
7.5°	950.7	939.5	946.5	943.0	948.3
10°	944.8	933.0	940.7	937.1	942.4
12.5°	937.1	925.9	933.0	930.1	934.8
15°	925.9	915.3	921.8	919.4	923.0
17.5°	912.4	901.8	908.3	906.5	909.4
20°	897.7	887.6	894.1	892.4	895.3
22.5°	881.2	870.6	876.5	875.3	877.6
25°	861.1	851.7	857.6	855.8	858.2
27.5°	839.9	831.1	835.8	835.8	837.0
30°	817.0	808.7	813.4	813.4	814.0
32.5°	792.2	785.7	788.7	789.3	789.3
35°	765.7	760.4	762.8	763.4	763.4
37.5°	738.0	732.7	734.5	735.7	735.7
40°	708.6	703.9	705.0	706.2	705.6
42.5°	676.8	673.2	673.8	675.0	675.0
45°	644.4	641.4	641.4	642.6	642.6
47.5°	611.4	608.5	607.3	608.5	608.5
50°	575.5	572.5	571.3	572.5	572.5
52.5°	537.8	534.8	534.8	534.8	535.4
55°	498.9	495.9	494.8	495.9	496.5
57.5°	457.7	456.5	454.7	455.3	453.5
60°	413.5	413.5	411.7	412.9	411.7
62.5°	370.5	371.7	369.9	369.9	368.7
65°	326.3	327.5	325.7	325.7	324.5
67.5°	281.0	282.7	280.4	280.4	279.2
70°	233.8	237.4	235.0	235.6	234.4
72.5°	191.4	193.2	190.8	190.8	189.7
75°	149.0	150.2	147.8	148.4	146.7
77.5°	107.2	109.0	106.6	107.2	106.6
80°	71.9	72.4	70.7	71.3	70.1
82.5°	41.8	42.4	41.8	41.2	40.6
85°	18.8	19.4	18.8	18.8	18.3
87.5°	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)