

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: P974903

Luminaire Tested: FLR2-24-35HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974903
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35HE-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

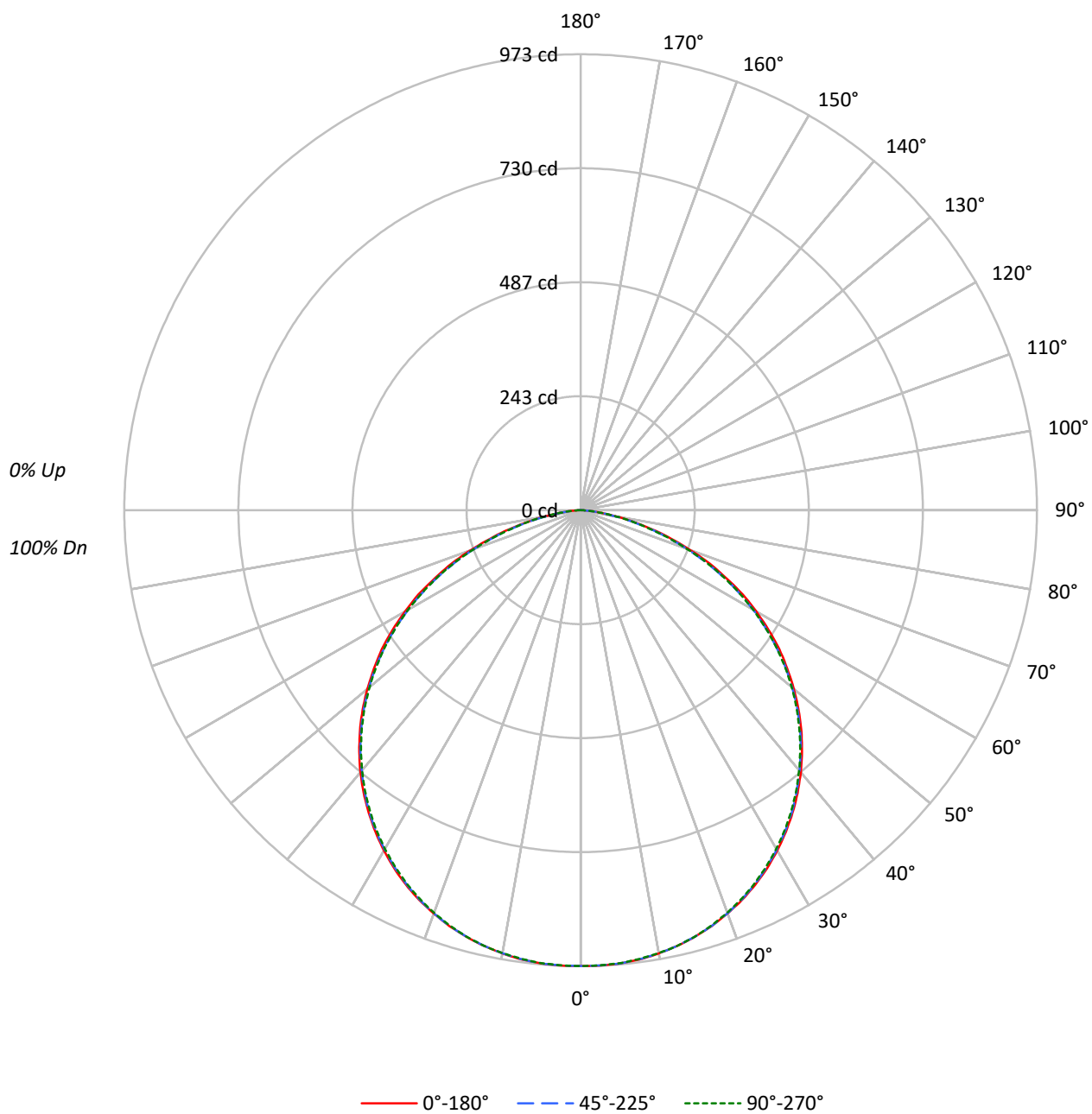
Lumens per Lamp: N/A
Luminaire Lumens: 2749.3 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	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	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1309	1309	1309
5°	1311	1311	1311
10°	1312	1312	1311
15°	1313	1312	1312
20°	1311	1311	1309
25°	1309	1306	1304
30°	1303	1299	1297
35°	1294	1291	1286
40°	1283	1275	1273
45°	1267	1259	1255
50°	1243	1233	1230
55°	1213	1196	1194
60°	1163	1142	1142
65°	1088	1062	1066
70°	979	949	946
75°	822	789	786
80°	600	570	595
85°	340	312	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1267 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.3	3.4
10°-20°	266.0	9.7
20°-30°	405.6	14.8
30°-40°	491.4	17.9
40°-50°	510.4	18.6
50°-60°	456.6	16.6
60°-70°	332.8	12.1
70°-80°	164.8	6.0
80°-90°	29.4	1.1
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°	763.9	27.8
0°-40°	1255.3	45.7
0°-60°	2222.3	80.8
0°-90°	2749.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2749.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	973	973	973	973	973	
5°	971	971	971	971	970	92
15°	942	942	942	943	942	266
25°	882	881	880	880	878	406
35°	788	787	786	785	783	493
45°	666	664	662	660	660	513
55°	517	513	510	510	509	461
65°	342	339	334	335	335	339
75°	158	156	152	155	151	169
85°	22	20	20	21	21	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	972.8	972.8	972.8	972.8	972.8
2.5°	972.8	972.4	972.4	972.8	972.1
5°	971.0	971.4	971.0	971.0	970.3
7.5°	967.2	966.8	966.5	966.8	965.8
10°	960.5	960.5	960.2	960.5	959.8
12.5°	952.5	952.5	952.5	952.9	952.5
15°	942.4	942.0	942.0	942.7	942.0
17.5°	930.5	930.2	930.2	929.8	929.1
20°	915.9	915.9	915.5	915.2	914.1
22.5°	900.2	899.8	898.8	898.8	897.4
25°	881.7	880.6	879.9	879.6	878.5
27.5°	861.4	860.0	859.0	858.3	857.2
30°	838.7	837.3	836.3	835.2	834.5
32.5°	814.3	813.6	811.9	811.5	810.1
35°	788.1	787.1	786.0	784.6	783.2
37.5°	760.2	759.1	756.7	756.0	755.0
40°	730.5	729.1	726.0	726.0	724.9
42.5°	698.8	697.4	695.3	693.9	693.2
45°	665.6	664.2	661.8	660.4	659.7
47.5°	630.4	629.3	626.5	625.5	624.4
50°	593.7	592.3	589.2	588.5	587.4
52.5°	555.3	554.6	550.4	550.1	549.0
55°	517.3	513.4	509.9	509.9	509.2
57.5°	475.4	472.6	468.1	468.1	467.4
60°	432.1	429.7	424.4	425.1	424.4
62.5°	389.9	384.6	379.7	381.8	380.1
65°	341.7	338.9	333.7	335.1	334.7
67.5°	297.7	292.5	287.6	290.4	289.0
70°	248.9	246.1	241.2	244.0	240.5
72.5°	202.8	200.3	195.5	198.6	195.1
75°	158.1	155.7	151.8	154.6	151.1
77.5°	115.9	114.1	110.6	113.4	114.1
80°	77.5	75.4	73.6	76.1	76.8
82.5°	45.4	44.0	43.3	43.6	45.4
85°	22.0	20.2	20.2	20.6	20.6
87.5°	5.9	5.2	5.9	6.3	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)