

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: P974925

Luminaire Tested: FLR2-24-35HE-L940-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974925
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

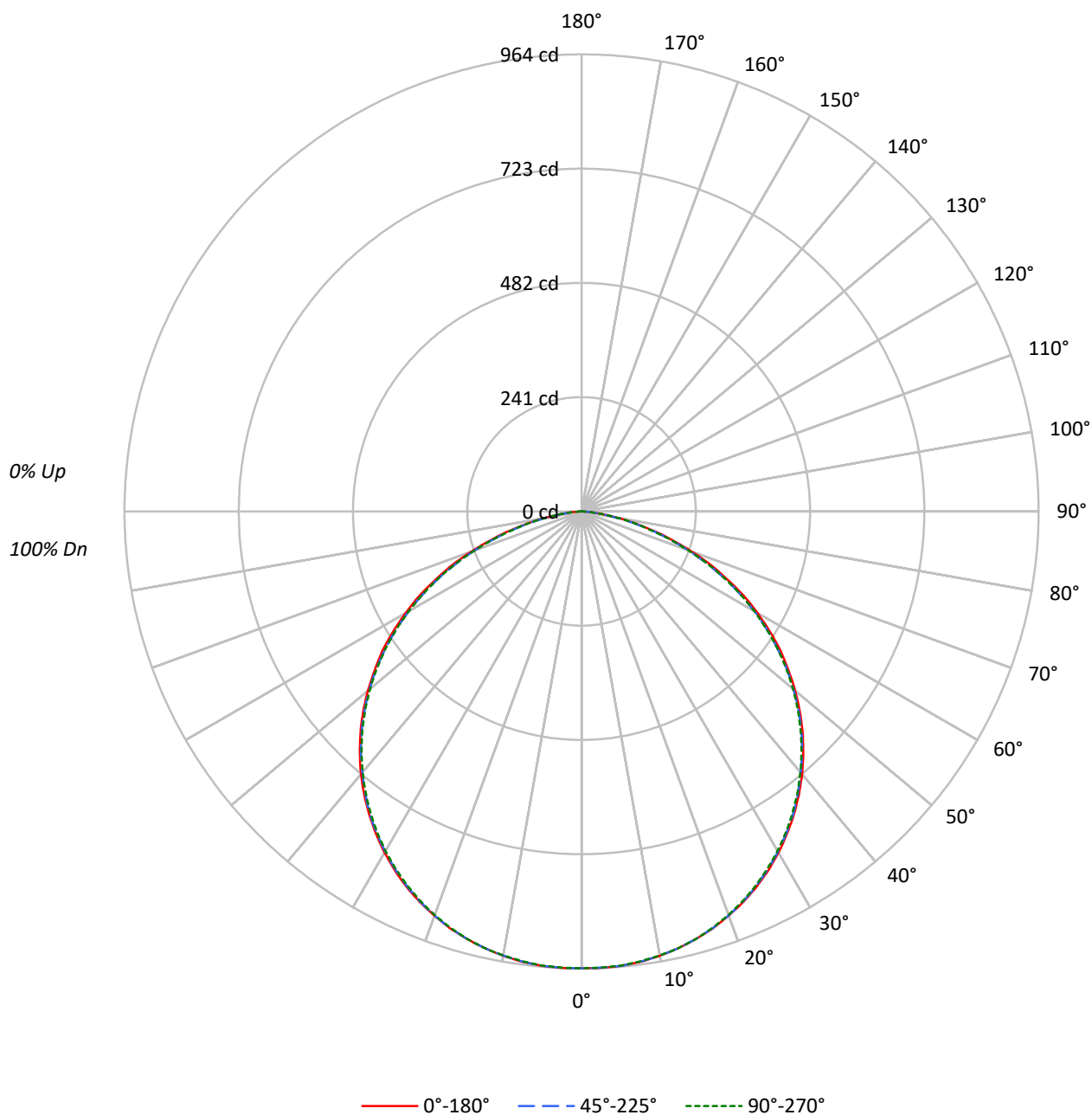
Lumens per Lamp: N/A
Luminaire Lumens: 2723.7 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P974925

CATALOG NUMBER: FLR2-24-35HE-L940-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P974925

CATALOG NUMBER: FLR2-24-35HE-L940-CP250

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		100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1297	1297	1297
5°	1299	1299	1298
10°	1300	1300	1299
15°	1300	1300	1300
20°	1299	1299	1297
25°	1297	1294	1292
30°	1291	1287	1285
35°	1282	1279	1274
40°	1271	1263	1261
45°	1255	1247	1243
50°	1231	1222	1218
55°	1202	1185	1183
60°	1152	1132	1132
65°	1078	1053	1056
70°	970	940	937
75°	814	782	778
80°	595	566	590
85°	337	310	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1255 cd/sqm

TEST NUMBER: P974925
CATALOG NUMBER: FLR2-24-35HE-L940-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.4
10°-20°	263.5	9.7
20°-30°	401.8	14.8
30°-40°	486.8	17.9
40°-50°	505.6	18.6
50°-60°	452.4	16.6
60°-70°	329.7	12.1
70°-80°	163.3	6.0
80°-90°	29.2	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°	756.8	27.8
0°-40°	1243.6	45.7
0°-60°	2201.6	80.8
0°-90°	2723.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2723.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	962	962	962	962	961	92
15°	934	933	933	934	933	264
25°	874	872	872	871	870	403
35°	781	780	779	777	776	488
45°	659	658	656	654	654	508
55°	512	509	505	505	504	457
65°	338	336	331	332	332	336
75°	157	154	150	153	150	167
85°	22	20	20	20	20	30
90°	0	0	0	0	0	

TEST NUMBER: P974925

CATALOG NUMBER: FLR2-24-35HE-L940-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.7	963.7	963.7	963.7	963.7
2.5°	963.7	963.4	963.4	963.7	963.0
5°	962.0	962.3	962.0	962.0	961.3
7.5°	958.2	957.8	957.5	957.8	956.8
10°	951.6	951.6	951.3	951.6	950.9
12.5°	943.6	943.6	943.6	944.0	943.6
15°	933.6	933.3	933.3	934.0	933.3
17.5°	921.9	921.5	921.5	921.2	920.5
20°	907.3	907.3	907.0	906.6	905.6
22.5°	891.8	891.4	890.4	890.4	889.0
25°	873.5	872.4	871.7	871.4	870.3
27.5°	853.4	852.0	851.0	850.3	849.2
30°	830.9	829.5	828.5	827.5	826.8
32.5°	806.7	806.0	804.3	803.9	802.6
35°	780.8	779.7	778.7	777.3	775.9
37.5°	753.1	752.1	749.7	749.0	747.9
40°	723.7	722.3	719.2	719.2	718.2
42.5°	692.3	690.9	688.8	687.4	686.7
45°	659.4	658.0	655.6	654.2	653.5
47.5°	624.5	623.4	620.7	619.6	618.6
50°	588.2	586.8	583.7	583.0	582.0
52.5°	550.1	549.5	545.3	545.0	543.9
55°	512.5	508.6	505.2	505.2	504.5
57.5°	471.0	468.2	463.7	463.7	463.0
60°	428.1	425.7	420.5	421.2	420.5
62.5°	386.2	381.1	376.2	378.3	376.6
65°	338.5	335.8	330.6	332.0	331.6
67.5°	295.0	289.8	284.9	287.7	286.3
70°	246.5	243.8	238.9	241.7	238.2
72.5°	200.9	198.5	193.6	196.8	193.3
75°	156.6	154.2	150.4	153.2	149.7
77.5°	114.8	113.1	109.6	112.4	113.1
80°	76.8	74.7	73.0	75.4	76.1
82.5°	45.0	43.6	42.9	43.2	45.0
85°	21.8	20.1	20.1	20.4	20.4
87.5°	5.9	5.2	5.9	6.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)