

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: P974936

Luminaire Tested: FLR2-24-35HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974936
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

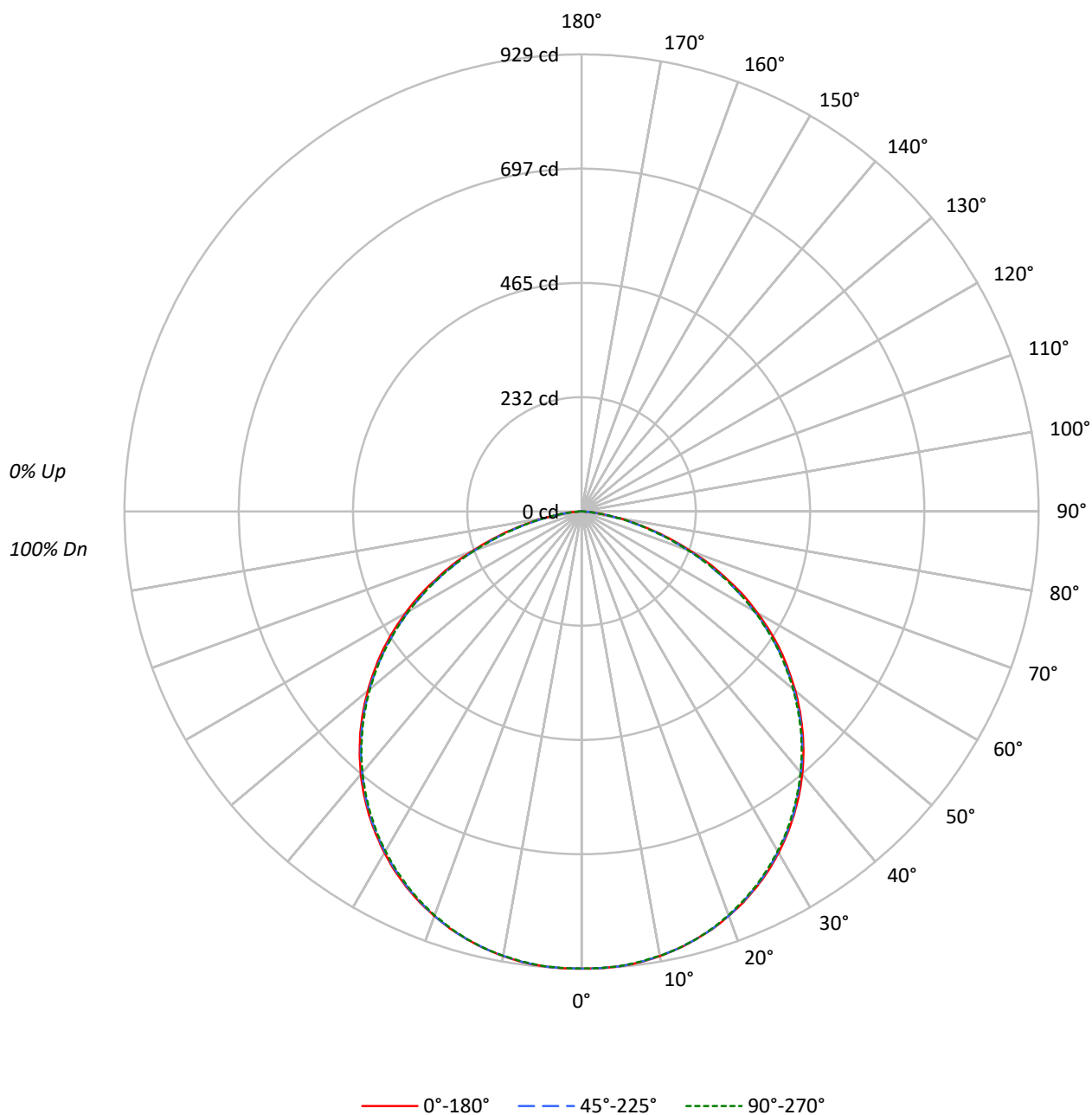
Lumens per Lamp: N/A
Luminaire Lumens: 2626.6 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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		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°	1250	1250	1250
5°	1253	1253	1252
10°	1254	1253	1253
15°	1254	1254	1254
20°	1253	1252	1250
25°	1250	1248	1246
30°	1245	1241	1239
35°	1237	1233	1229
40°	1226	1218	1216
45°	1210	1203	1199
50°	1187	1178	1175
55°	1159	1143	1141
60°	1111	1091	1091
65°	1039	1015	1018
70°	935	906	904
75°	786	754	751
80°	573	545	569
85°	324	298	304

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1210 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	3.4
10°-20°	254.1	9.7
20°-30°	387.5	14.8
30°-40°	469.4	17.9
40°-50°	487.6	18.6
50°-60°	436.2	16.6
60°-70°	317.9	12.1
70°-80°	157.4	6.0
80°-90°	28.1	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°	729.8	27.8
0°-40°	1199.2	45.7
0°-60°	2123.1	80.8
0°-90°	2626.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2626.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	928	928	928	928	927	88
15°	900	900	900	901	900	254
25°	842	841	841	840	839	388
35°	753	752	751	750	748	471
45°	636	635	632	631	630	490
55°	494	490	487	487	486	440
65°	326	324	319	320	320	324
75°	151	149	145	148	144	161
85°	21	19	19	20	20	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.3	929.3	929.3	929.3	929.3
2.5°	929.3	929.0	929.0	929.3	928.7
5°	927.7	928.0	927.7	927.7	927.0
7.5°	924.0	923.7	923.3	923.7	922.7
10°	917.7	917.7	917.3	917.7	917.0
12.5°	910.0	910.0	910.0	910.3	910.0
15°	900.3	900.0	900.0	900.7	900.0
17.5°	889.0	888.7	888.7	888.3	887.7
20°	875.0	875.0	874.7	874.3	873.3
22.5°	860.0	859.6	858.6	858.6	857.3
25°	842.3	841.3	840.6	840.3	839.3
27.5°	823.0	821.6	820.6	820.0	819.0
30°	801.3	800.0	799.0	798.0	797.3
32.5°	777.9	777.3	775.6	775.3	773.9
35°	752.9	751.9	750.9	749.6	748.3
37.5°	726.3	725.3	722.9	722.3	721.3
40°	697.9	696.6	693.6	693.6	692.6
42.5°	667.6	666.2	664.2	662.9	662.2
45°	635.9	634.6	632.2	630.9	630.2
47.5°	602.2	601.2	598.6	597.5	596.5
50°	567.2	565.9	562.9	562.2	561.2
52.5°	530.5	529.9	525.9	525.5	524.5
55°	494.2	490.5	487.2	487.2	486.5
57.5°	454.2	451.5	447.2	447.2	446.5
60°	412.8	410.5	405.5	406.1	405.5
62.5°	372.5	367.5	362.8	364.8	363.1
65°	326.5	323.8	318.8	320.1	319.8
67.5°	284.4	279.4	274.8	277.4	276.1
70°	237.8	235.1	230.4	233.1	229.7
72.5°	193.7	191.4	186.7	189.7	186.4
75°	151.1	148.7	145.1	147.7	144.4
77.5°	110.7	109.0	105.7	108.4	109.0
80°	74.0	72.0	70.4	72.7	73.4
82.5°	43.3	42.0	41.3	41.7	43.3
85°	21.0	19.3	19.3	19.7	19.7
87.5°	5.7	5.0	5.7	6.0	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)