

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: P973915

Luminaire Tested: FLR2-22-35HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973915
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-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

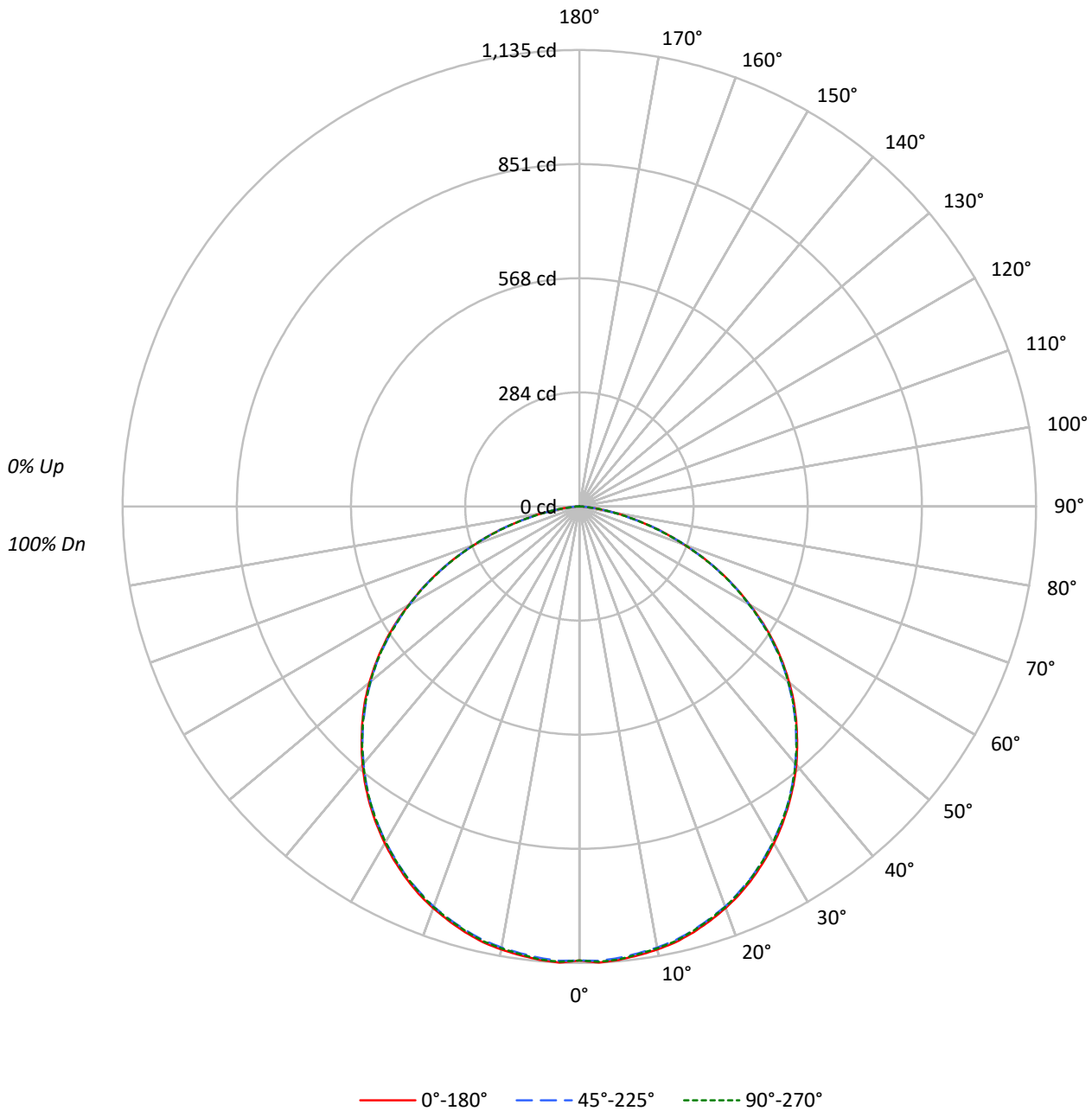
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3157.2 lumens
Efficiency: N/A
Efficacy: 116.1 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

TEST NUMBER: P973915
CATALOG NUMBER: FLR2-22-35HE-L840-CP375

Luminous Intensity Polar Plot





TEST NUMBER: P973915
 CATALOG NUMBER: FLR2-22-35HE-L840-CP375

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	3038	3038	3038
5°	3057	3044	3054
10°	3056	3043	3049
15°	3054	3040	3044
20°	3043	3031	3036
25°	3027	3015	3017
30°	3005	2992	2994
35°	2978	2967	2969
40°	2947	2932	2935
45°	2903	2890	2895
50°	2852	2832	2838
55°	2771	2748	2758
60°	2634	2623	2623
65°	2460	2455	2446
70°	2178	2189	2183
75°	1834	1820	1805
80°	1319	1297	1286
85°	689	689	667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2903 cd/sqm



TEST NUMBER: P973915
 CATALOG NUMBER: FLR2-22-35HE-L840-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.4
10°-20°	307.4	9.7
20°-30°	467.2	14.8
30°-40°	564.7	17.9
40°-50°	586.1	18.6
50°-60°	524.0	16.6
60°-70°	381.0	12.1
70°-80°	187.3	5.9
80°-90°	32.5	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°	881.5	27.9
0°-40°	1446.2	45.8
0°-60°	2556.4	81.0
0°-90°	3157.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1129	1129	1129	1129	1129	
5°	1132	1118	1127	1123	1130	108
15°	1096	1084	1091	1088	1093	309
25°	1020	1008	1015	1013	1016	470
35°	906	900	903	904	904	567
45°	763	759	759	761	761	588
55°	591	587	586	587	588	526
65°	386	388	386	386	384	381
75°	176	178	175	176	174	187
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



TEST NUMBER: P973915
 CATALOG NUMBER: FLR2-22-35HE-L840-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1129.0	1129.0	1129.0	1129.0	1129.0
2.5°	1135.3	1122.0	1130.4	1125.5	1133.2
5°	1131.8	1118.5	1126.9	1122.7	1130.4
7.5°	1125.5	1112.3	1120.6	1116.4	1122.7
10°	1118.5	1104.6	1113.6	1109.5	1115.7
12.5°	1109.5	1096.2	1104.6	1101.1	1106.7
15°	1096.2	1083.7	1091.3	1088.5	1092.7
17.5°	1080.2	1067.6	1075.3	1073.2	1076.7
20°	1062.7	1050.9	1058.6	1056.5	1060.0
22.5°	1043.2	1030.7	1037.6	1036.2	1039.0
25°	1019.5	1008.4	1015.3	1013.2	1016.0
27.5°	994.4	983.9	989.5	989.5	990.9
30°	967.2	957.4	963.0	963.0	963.7
32.5°	937.9	930.2	933.7	934.4	934.4
35°	906.5	900.3	903.1	903.7	903.7
37.5°	873.8	867.5	869.6	871.0	871.0
40°	838.9	833.3	834.7	836.1	835.4
42.5°	801.2	797.1	797.8	799.1	799.1
45°	762.9	759.4	759.4	760.8	760.8
47.5°	723.8	720.3	719.0	720.3	720.3
50°	681.3	677.8	676.4	677.8	677.8
52.5°	636.7	633.2	633.2	633.2	633.9
55°	590.6	587.2	585.8	587.2	587.9
57.5°	541.8	540.4	538.3	539.0	537.0
60°	489.5	489.5	487.4	488.8	487.4
62.5°	438.6	440.0	437.9	437.9	436.5
65°	386.3	387.7	385.6	385.6	384.2
67.5°	332.6	334.7	331.9	331.9	330.5
70°	276.8	281.0	278.2	278.9	277.5
72.5°	226.6	228.7	225.9	225.9	224.5
75°	176.4	177.8	175.0	175.7	173.6
77.5°	126.9	129.0	126.2	126.9	126.2
80°	85.1	85.8	83.7	84.4	83.0
82.5°	49.5	50.2	49.5	48.8	48.1
85°	22.3	23.0	22.3	22.3	21.6
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)