

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: P973927

Luminaire Tested: FLR2-22-35HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973927
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-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

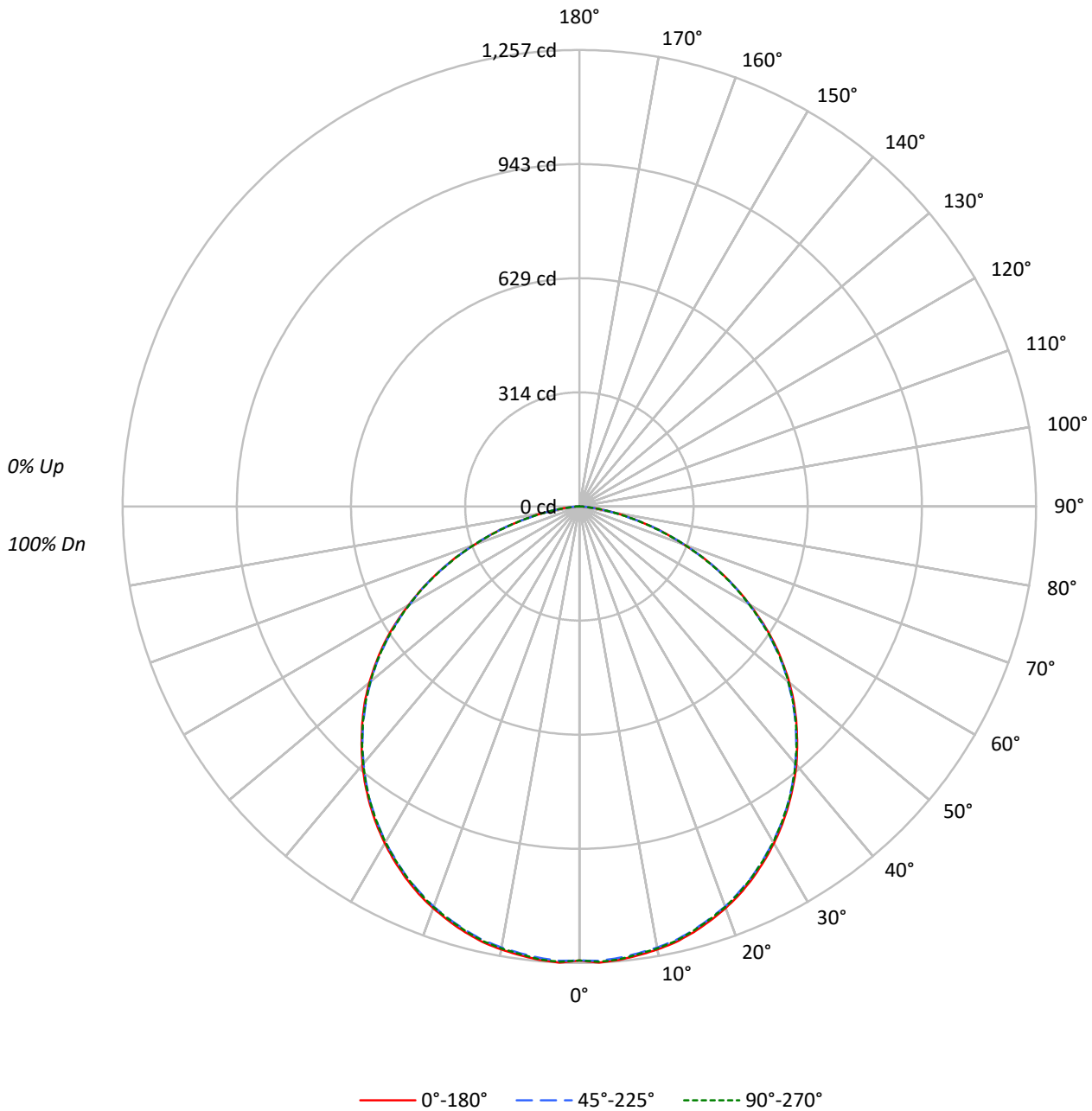
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3496.8 lumens
Efficiency: N/A
Efficacy: 128.6 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: P973927
CATALOG NUMBER: FLR2-22-35HE-L840-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973927
 CATALOG NUMBER: FLR2-22-35HE-L840-CA125

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°	3365	3365	3365
5°	3386	3371	3382
10°	3385	3370	3377
15°	3382	3367	3372
20°	3371	3357	3362
25°	3353	3339	3341
30°	3329	3314	3317
35°	3298	3286	3288
40°	3264	3248	3250
45°	3215	3201	3207
50°	3159	3136	3143
55°	3069	3044	3055
60°	2918	2906	2906
65°	2725	2720	2710
70°	2412	2425	2419
75°	2032	2016	1999
80°	1460	1437	1424
85°	763	763	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3215 cd/sqm



TEST NUMBER: P973927
 CATALOG NUMBER: FLR2-22-35HE-L840-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.4
10°-20°	340.5	9.7
20°-30°	517.4	14.8
30°-40°	625.4	17.9
40°-50°	649.2	18.6
50°-60°	580.4	16.6
60°-70°	422.0	12.1
70°-80°	207.5	5.9
80°-90°	36.0	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°	976.4	27.9
0°-40°	1601.8	45.8
0°-60°	2831.4	81.0
0°-90°	3496.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3496.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1254	1239	1248	1244	1252	119
15°	1214	1200	1209	1206	1210	343
25°	1129	1117	1124	1122	1125	520
35°	1004	997	1000	1001	1001	628
45°	845	841	841	843	843	652
55°	654	650	649	650	651	583
65°	428	429	427	427	426	422
75°	195	197	194	195	192	207
85°	25	26	25	25	24	36
90°	0	0	0	0	0	



TEST NUMBER: P973927
 CATALOG NUMBER: FLR2-22-35HE-L840-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.4	1250.4	1250.4	1250.4	1250.4
2.5°	1257.4	1242.7	1252.0	1246.6	1255.1
5°	1253.5	1238.8	1248.1	1243.5	1252.0
7.5°	1246.6	1231.9	1241.1	1236.5	1243.5
10°	1238.8	1223.4	1233.4	1228.8	1235.7
12.5°	1228.8	1214.1	1223.4	1219.5	1225.7
15°	1214.1	1200.2	1208.7	1205.6	1210.3
17.5°	1196.4	1182.5	1190.9	1188.6	1192.5
20°	1177.0	1163.9	1172.4	1170.1	1174.0
22.5°	1155.4	1141.5	1149.2	1147.7	1150.8
25°	1129.2	1116.8	1124.5	1122.2	1125.3
27.5°	1101.4	1089.8	1095.9	1095.9	1097.5
30°	1071.2	1060.4	1066.6	1066.6	1067.4
32.5°	1038.8	1030.3	1034.2	1034.9	1034.9
35°	1004.0	997.1	1000.2	1001.0	1001.0
37.5°	967.7	960.8	963.1	964.7	964.7
40°	929.1	922.9	924.5	926.0	925.3
42.5°	887.4	882.8	883.6	885.1	885.1
45°	844.9	841.1	841.1	842.6	842.6
47.5°	801.7	797.8	796.3	797.8	797.8
50°	754.6	750.7	749.2	750.7	750.7
52.5°	705.1	701.3	701.3	701.3	702.1
55°	654.2	650.3	648.8	650.3	651.1
57.5°	600.1	598.6	596.2	597.0	594.7
60°	542.2	542.2	539.9	541.4	539.9
62.5°	485.8	487.3	485.0	485.0	483.5
65°	427.9	429.4	427.1	427.1	425.6
67.5°	368.4	370.7	367.6	367.6	366.1
70°	306.6	311.3	308.2	308.9	307.4
72.5°	251.0	253.3	250.2	250.2	248.7
75°	195.4	196.9	193.9	194.6	192.3
77.5°	140.6	142.9	139.8	140.6	139.8
80°	94.2	95.0	92.7	93.5	91.9
82.5°	54.8	55.6	54.8	54.1	53.3
85°	24.7	25.5	24.7	24.7	23.9
87.5°	6.2	6.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)