

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: P973975

Luminaire Tested: FLR2-22-35HE-L850-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973975
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-L850-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

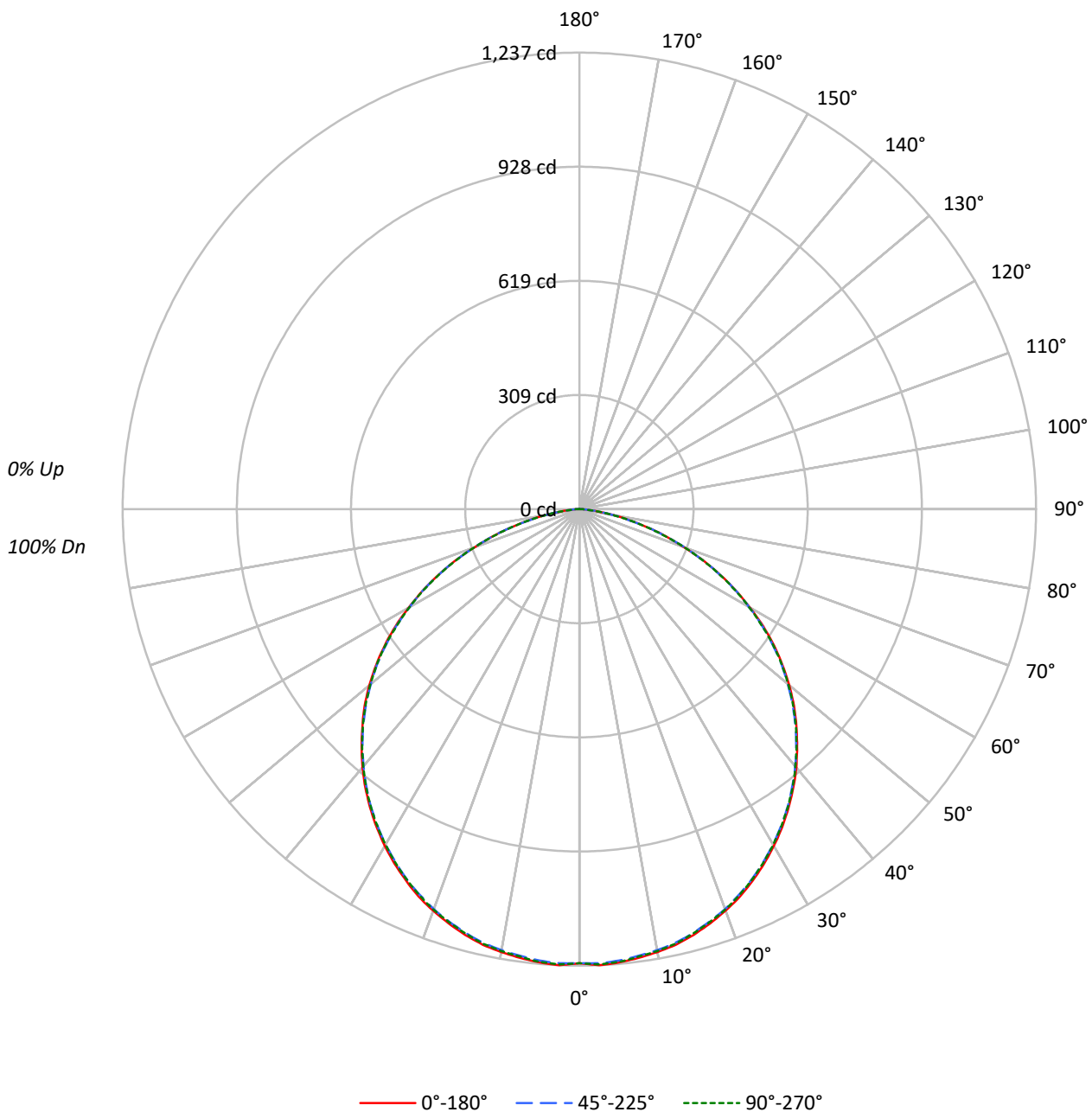
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3440.5 lumens
Efficiency: N/A
Efficacy: 126.5 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: P973975
CATALOG NUMBER: FLR2-22-35HE-L850-CP080

Luminous Intensity Polar Plot





TEST NUMBER: P973975
 CATALOG NUMBER: FLR2-22-35HE-L850-CP080

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°	3311	3311	3311
5°	3331	3317	3327
10°	3331	3316	3322
15°	3328	3313	3317
20°	3316	3303	3308
25°	3299	3285	3287
30°	3275	3261	3263
35°	3245	3233	3235
40°	3211	3195	3198
45°	3164	3149	3155
50°	3108	3086	3092
55°	3019	2995	3005
60°	2871	2859	2859
65°	2681	2676	2666
70°	2374	2386	2379
75°	1999	1983	1967
80°	1437	1413	1401
85°	750	750	729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3164 cd/sqm



TEST NUMBER: P973975
 CATALOG NUMBER: FLR2-22-35HE-L850-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	3.4
10°-20°	335.0	9.7
20°-30°	509.1	14.8
30°-40°	615.4	17.9
40°-50°	638.7	18.6
50°-60°	571.0	16.6
60°-70°	415.2	12.1
70°-80°	204.2	5.9
80°-90°	35.4	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°	960.6	27.9
0°-40°	1576.0	45.8
0°-60°	2785.8	81.0
0°-90°	3440.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3440.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1233	1219	1228	1223	1232	117
15°	1195	1181	1189	1186	1191	337
25°	1111	1099	1106	1104	1107	512
35°	988	981	984	985	985	618
45°	831	828	828	829	829	641
55°	644	640	638	640	641	574
65°	421	422	420	420	419	415
75°	192	194	191	192	189	204
85°	24	25	24	24	24	36
90°	0	0	0	0	0	



TEST NUMBER: P973975
 CATALOG NUMBER: FLR2-22-35HE-L850-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.3	1230.3	1230.3	1230.3	1230.3
2.5°	1237.1	1222.7	1231.8	1226.5	1234.8
5°	1233.3	1218.9	1228.0	1223.4	1231.8
7.5°	1226.5	1212.0	1221.2	1216.6	1223.4
10°	1218.9	1203.7	1213.6	1209.0	1215.8
12.5°	1209.0	1194.6	1203.7	1199.9	1206.0
15°	1194.6	1180.9	1189.3	1186.2	1190.8
17.5°	1177.1	1163.4	1171.8	1169.5	1173.3
20°	1158.1	1145.2	1153.5	1151.3	1155.1
22.5°	1136.8	1123.1	1130.7	1129.2	1132.3
25°	1111.0	1098.8	1106.4	1104.1	1107.2
27.5°	1083.6	1072.2	1078.3	1078.3	1079.8
30°	1054.0	1043.3	1049.4	1049.4	1050.2
32.5°	1022.1	1013.7	1017.5	1018.3	1018.3
35°	987.9	981.0	984.1	984.8	984.8
37.5°	952.2	945.3	947.6	949.1	949.1
40°	914.2	908.1	909.6	911.1	910.4
42.5°	873.1	868.6	869.3	870.9	870.9
45°	831.3	827.5	827.5	829.1	829.1
47.5°	788.8	785.0	783.5	785.0	785.0
50°	742.4	738.6	737.1	738.6	738.6
52.5°	693.8	690.0	690.0	690.0	690.8
55°	643.6	639.8	638.3	639.8	640.6
57.5°	590.4	588.9	586.6	587.4	585.1
60°	533.5	533.5	531.2	532.7	531.2
62.5°	478.0	479.5	477.2	477.2	475.7
65°	421.0	422.5	420.2	420.2	418.7
67.5°	362.5	364.8	361.7	361.7	360.2
70°	301.7	306.2	303.2	304.0	302.4
72.5°	247.0	249.2	246.2	246.2	244.7
75°	192.3	193.8	190.7	191.5	189.2
77.5°	138.3	140.6	137.5	138.3	137.5
80°	92.7	93.5	91.2	91.9	90.4
82.5°	54.0	54.7	54.0	53.2	52.4
85°	24.3	25.1	24.3	24.3	23.6
87.5°	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)