

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: P973759

Luminaire Tested: FLR2-22-35HE-L830-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973759
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-L830-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

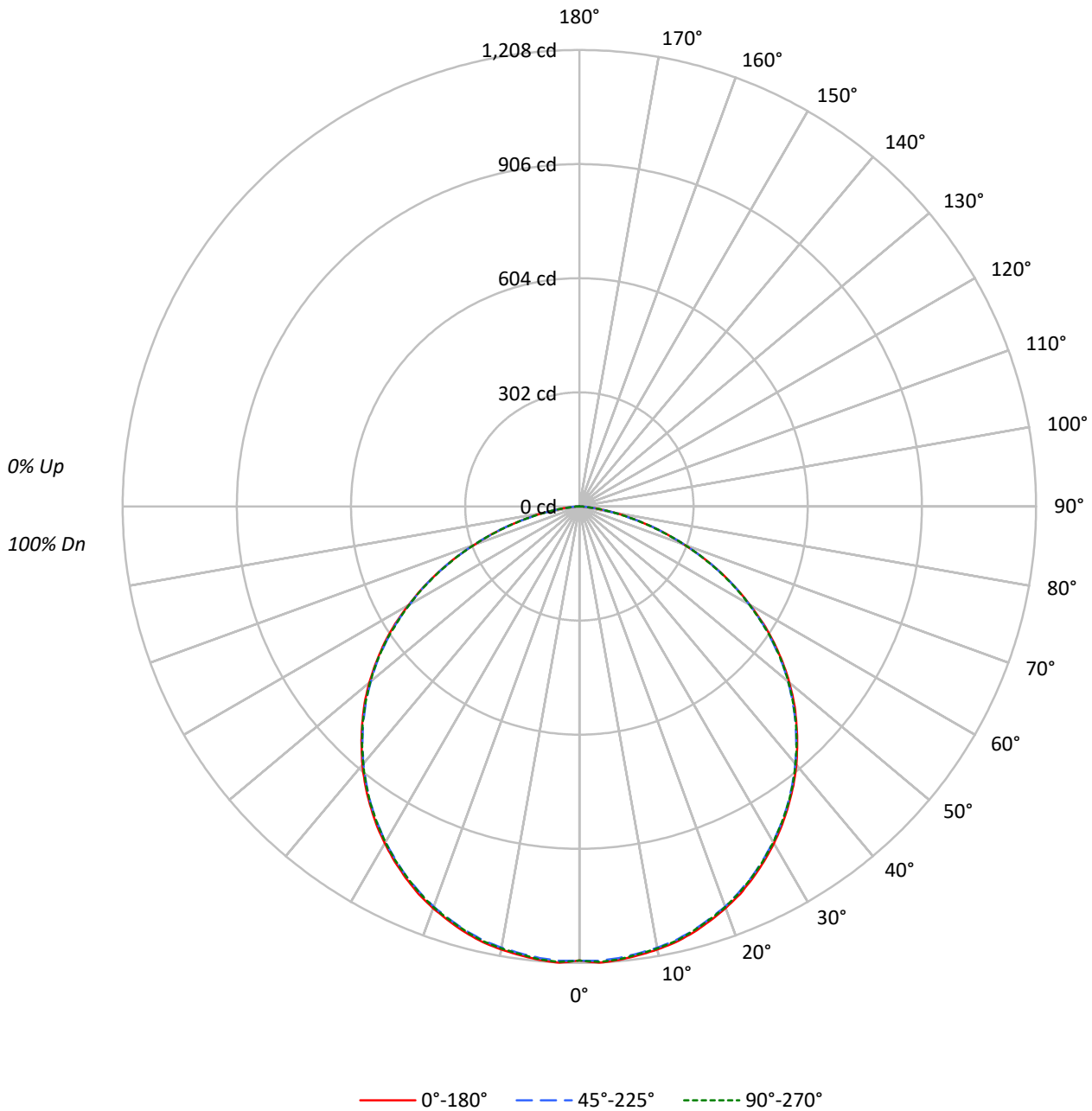
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3361.0 lumens
Efficiency: N/A
Efficacy: 123.6 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

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Luminous Intensity Polar Plot





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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°	3234	3234	3234
5°	3254	3240	3250
10°	3254	3239	3246
15°	3251	3237	3241
20°	3240	3227	3231
25°	3222	3209	3211
30°	3199	3186	3188
35°	3170	3158	3161
40°	3137	3121	3124
45°	3091	3076	3082
50°	3036	3015	3021
55°	2950	2926	2936
60°	2805	2793	2793
65°	2619	2614	2604
70°	2319	2330	2325
75°	1953	1937	1921
80°	1404	1381	1368
85°	735	735	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3091 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.8	3.4
10°-20°	327.3	9.7
20°-30°	497.4	14.8
30°-40°	601.2	17.9
40°-50°	624.0	18.6
50°-60°	557.9	16.6
60°-70°	405.6	12.1
70°-80°	199.4	5.9
80°-90°	34.6	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°	938.4	27.9
0°-40°	1539.6	45.8
0°-60°	2721.4	81.0
0°-90°	3361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3361.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1202	1202	1202	1202	1202	
5°	1205	1191	1200	1195	1203	115
15°	1167	1154	1162	1159	1163	329
25°	1085	1073	1081	1079	1082	500
35°	965	958	961	962	962	604
45°	812	808	808	810	810	626
55°	629	625	624	625	626	560
65°	411	413	410	410	409	406
75°	188	189	186	187	185	199
85°	24	24	24	24	23	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1208.5	1194.4	1203.3	1198.1	1206.3
5°	1204.8	1190.7	1199.6	1195.2	1203.3
7.5°	1198.1	1184.0	1192.9	1188.5	1195.2
10°	1190.7	1175.9	1185.5	1181.1	1187.8
12.5°	1181.1	1167.0	1175.9	1172.2	1178.1
15°	1167.0	1153.6	1161.8	1158.8	1163.3
17.5°	1149.9	1136.5	1144.7	1142.5	1146.2
20°	1131.3	1118.7	1126.9	1124.7	1128.4
22.5°	1110.5	1097.2	1104.6	1103.1	1106.1
25°	1085.3	1073.4	1080.9	1078.6	1081.6
27.5°	1058.6	1047.5	1053.4	1053.4	1054.9
30°	1029.6	1019.2	1025.2	1025.2	1025.9
32.5°	998.5	990.3	994.0	994.7	994.7
35°	965.0	958.4	961.3	962.1	962.1
37.5°	930.2	923.5	925.7	927.2	927.2
40°	893.0	887.1	888.6	890.1	889.3
42.5°	853.0	848.5	849.2	850.7	850.7
45°	812.1	808.4	808.4	809.9	809.9
47.5°	770.6	766.8	765.4	766.8	766.8
50°	725.3	721.6	720.1	721.6	721.6
52.5°	677.8	674.1	674.1	674.1	674.8
55°	628.8	625.1	623.6	625.1	625.8
57.5°	576.8	575.3	573.1	573.8	571.6
60°	521.1	521.1	518.9	520.4	518.9
62.5°	466.9	468.4	466.2	466.2	464.7
65°	411.3	412.7	410.5	410.5	409.0
67.5°	354.1	356.3	353.4	353.4	351.9
70°	294.7	299.2	296.2	296.9	295.5
72.5°	241.3	243.5	240.5	240.5	239.0
75°	187.8	189.3	186.3	187.1	184.8
77.5°	135.1	137.3	134.4	135.1	134.4
80°	90.6	91.3	89.1	89.8	88.3
82.5°	52.7	53.4	52.7	52.0	51.2
85°	23.8	24.5	23.8	23.8	23.0
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)