

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: P973753

Luminaire Tested: FLR2-22-35HE-L830-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973753
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

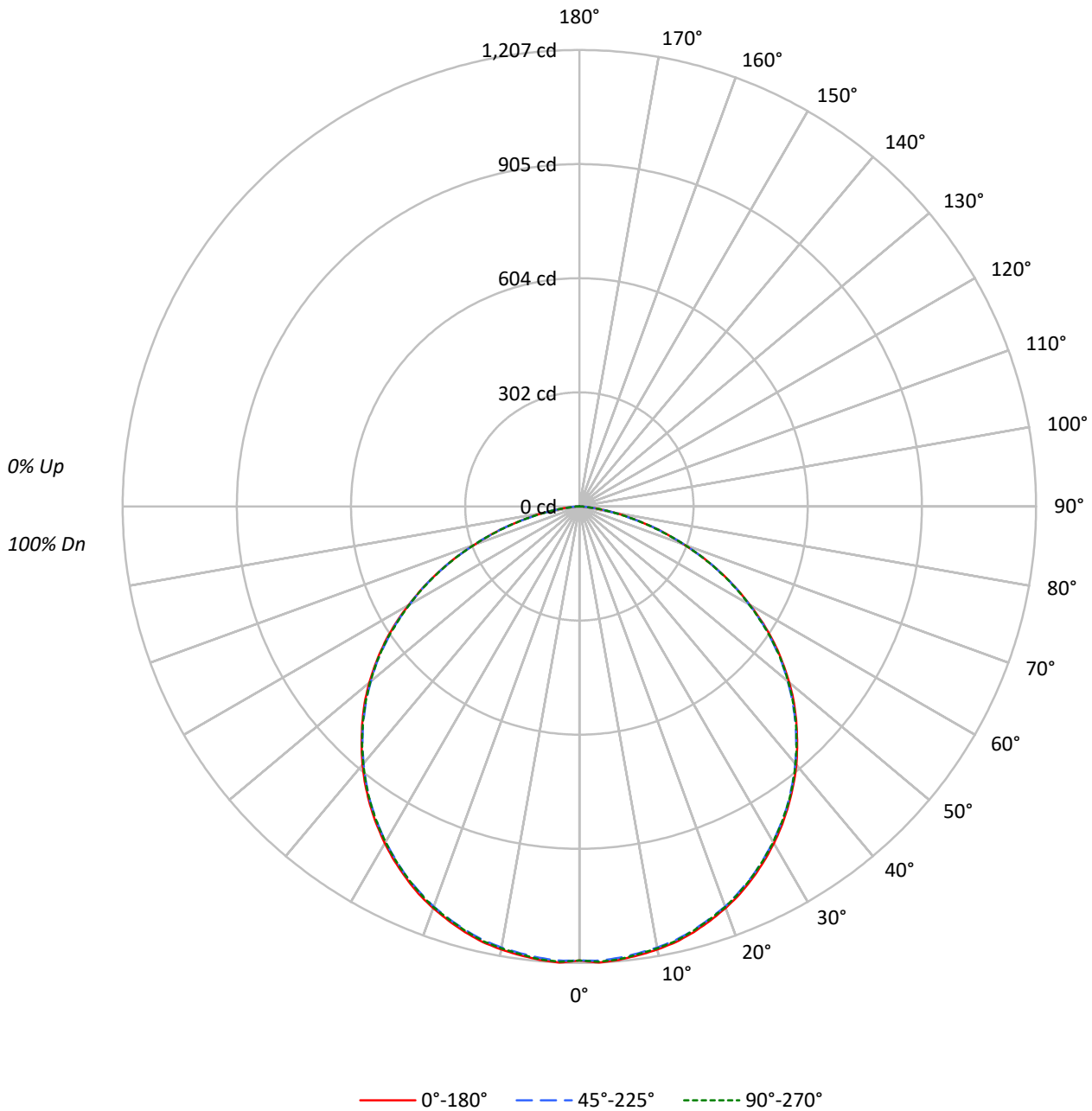
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3357.4 lumens
Efficiency: N/A
Efficacy: 123.4 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°	3231	3231	3231
5°	3251	3237	3247
10°	3250	3236	3242
15°	3248	3233	3237
20°	3236	3224	3228
25°	3219	3206	3208
30°	3196	3182	3184
35°	3167	3155	3157
40°	3134	3118	3121
45°	3087	3073	3079
50°	3033	3011	3018
55°	2947	2922	2933
60°	2802	2789	2789
65°	2616	2611	2602
70°	2316	2328	2322
75°	1951	1935	1919
80°	1402	1379	1367
85°	732	732	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3087 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.4
10°-20°	326.9	9.7
20°-30°	496.8	14.8
30°-40°	600.5	17.9
40°-50°	623.3	18.6
50°-60°	557.2	16.6
60°-70°	405.2	12.1
70°-80°	199.2	5.9
80°-90°	34.5	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°	937.4	27.9
0°-40°	1537.9	45.8
0°-60°	2718.5	81.0
0°-90°	3357.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1201	1201	1201	1201	1201	
5°	1204	1189	1198	1194	1202	114
15°	1166	1152	1160	1158	1162	329
25°	1084	1072	1080	1078	1080	500
35°	964	957	960	961	961	603
45°	811	808	808	809	809	626
55°	628	624	623	624	625	560
65°	411	412	410	410	409	405
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°	1200.6	1200.6	1200.6	1200.6	1200.6
2.5°	1207.2	1193.1	1202.0	1196.9	1205.0
5°	1203.5	1189.4	1198.3	1193.9	1202.0
7.5°	1196.9	1182.8	1191.7	1187.2	1193.9
10°	1189.4	1174.6	1184.2	1179.8	1186.5
12.5°	1179.8	1165.7	1174.6	1170.9	1176.8
15°	1165.7	1152.4	1160.5	1157.6	1162.0
17.5°	1148.7	1135.3	1143.5	1141.2	1144.9
20°	1130.1	1117.5	1125.7	1123.4	1127.2
22.5°	1109.4	1096.0	1103.4	1101.9	1104.9
25°	1084.1	1072.3	1079.7	1077.5	1080.4
27.5°	1057.4	1046.3	1052.3	1052.3	1053.7
30°	1028.5	1018.1	1024.1	1024.1	1024.8
32.5°	997.4	989.2	992.9	993.7	993.7
35°	964.0	957.3	960.3	961.0	961.0
37.5°	929.2	922.5	924.7	926.2	926.2
40°	892.1	886.1	887.6	889.1	888.4
42.5°	852.0	847.6	848.3	849.8	849.8
45°	811.3	807.5	807.5	809.0	809.0
47.5°	769.7	766.0	764.5	766.0	766.0
50°	724.5	720.8	719.3	720.8	720.8
52.5°	677.0	673.3	673.3	673.3	674.1
55°	628.1	624.4	622.9	624.4	625.1
57.5°	576.2	574.7	572.5	573.2	571.0
60°	520.6	520.6	518.3	519.8	518.3
62.5°	466.4	467.9	465.7	465.7	464.2
65°	410.8	412.3	410.1	410.1	408.6
67.5°	353.7	355.9	353.0	353.0	351.5
70°	294.4	298.8	295.9	296.6	295.1
72.5°	241.0	243.2	240.3	240.3	238.8
75°	187.6	189.1	186.1	186.9	184.6
77.5°	135.0	137.2	134.2	135.0	134.2
80°	90.5	91.2	89.0	89.7	88.2
82.5°	52.6	53.4	52.6	51.9	51.2
85°	23.7	24.5	23.7	23.7	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)