

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: P973843

Luminaire Tested: FLR2-22-35HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973843
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

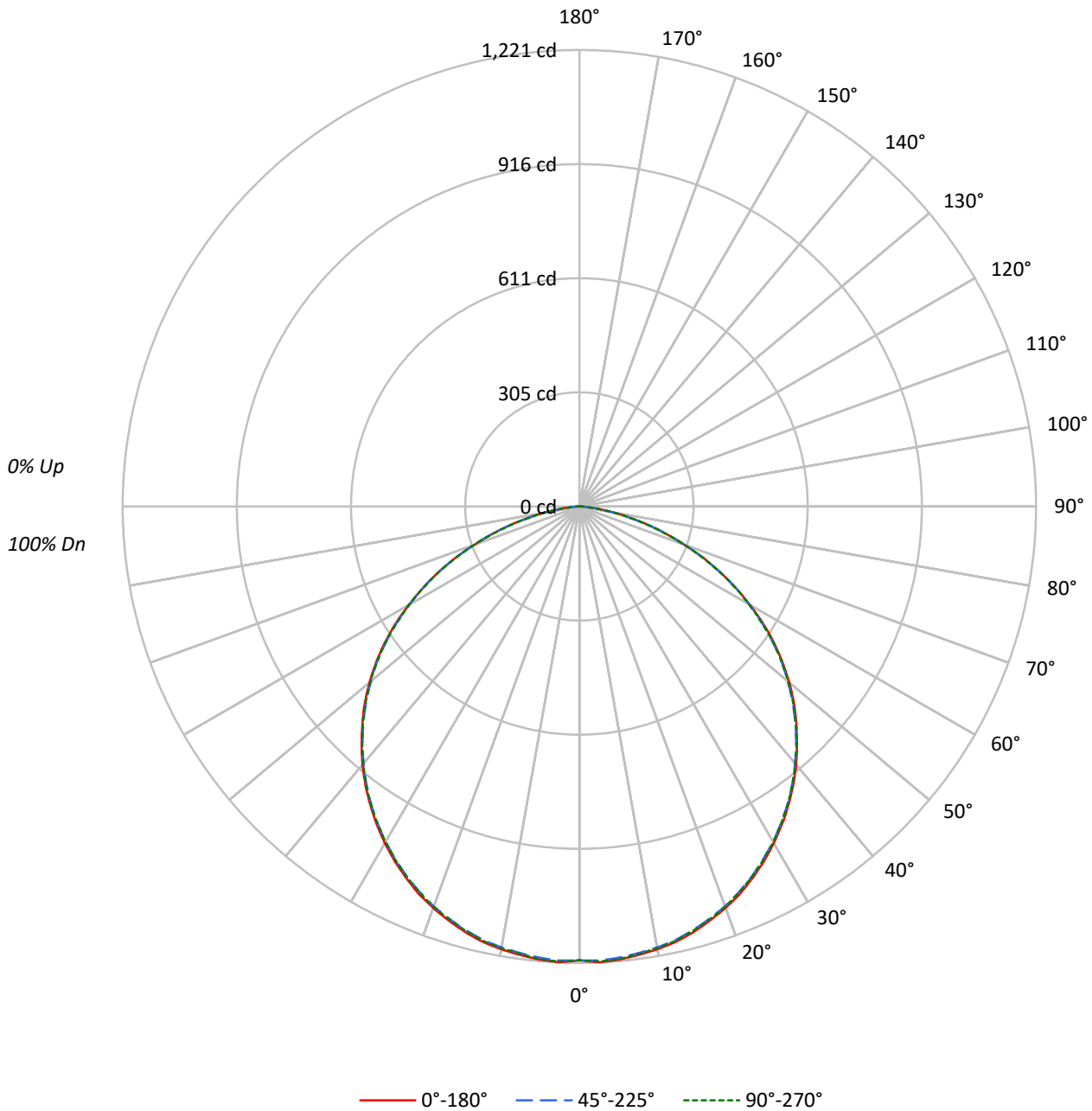
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3395.0 lumens
Efficiency: N/A
Efficacy: 124.8 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°	3267	3267	3267
5°	3287	3273	3283
10°	3287	3272	3278
15°	3284	3269	3273
20°	3273	3260	3264
25°	3255	3242	3244
30°	3232	3218	3220
35°	3202	3190	3192
40°	3169	3153	3156
45°	3122	3108	3113
50°	3067	3045	3051
55°	2980	2955	2966
60°	2833	2821	2821
65°	2645	2641	2631
70°	2342	2354	2348
75°	1972	1957	1941
80°	1418	1395	1382
85°	741	741	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3122 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	3.4
10°-20°	330.6	9.7
20°-30°	502.4	14.8
30°-40°	607.2	17.9
40°-50°	630.3	18.6
50°-60°	563.5	16.6
60°-70°	409.7	12.1
70°-80°	201.5	5.9
80°-90°	34.9	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°	947.9	27.9
0°-40°	1555.1	45.8
0°-60°	2748.9	81.0
0°-90°	3395.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3395.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1217	1203	1212	1207	1216	116
15°	1179	1165	1174	1170	1175	333
25°	1096	1084	1092	1090	1092	505
35°	975	968	971	972	972	610
45°	820	817	817	818	818	633
55°	635	631	630	631	632	566
65°	415	417	415	415	413	410
75°	190	191	188	189	187	201
85°	24	25	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°	1214.0	1214.0	1214.0	1214.0	1214.0
2.5°	1220.7	1206.5	1215.5	1210.2	1218.5
5°	1217.0	1202.8	1211.7	1207.2	1215.5
7.5°	1210.2	1196.0	1205.0	1200.5	1207.2
10°	1202.8	1187.8	1197.5	1193.0	1199.8
12.5°	1193.0	1178.8	1187.8	1184.0	1190.0
15°	1178.8	1165.3	1173.5	1170.5	1175.0
17.5°	1161.5	1148.0	1156.3	1154.0	1157.8
20°	1142.8	1130.0	1138.3	1136.0	1139.8
22.5°	1121.8	1108.3	1115.8	1114.3	1117.3
25°	1096.3	1084.3	1091.8	1089.5	1092.5
27.5°	1069.3	1058.0	1064.0	1064.0	1065.5
30°	1040.0	1029.5	1035.5	1035.5	1036.3
32.5°	1008.5	1000.3	1004.0	1004.8	1004.8
35°	974.8	968.0	971.0	971.8	971.8
37.5°	939.6	932.8	935.1	936.6	936.6
40°	902.1	896.1	897.6	899.1	898.3
42.5°	861.6	857.1	857.8	859.3	859.3
45°	820.3	816.6	816.6	818.1	818.1
47.5°	778.3	774.6	773.1	774.6	774.6
50°	732.6	728.8	727.3	728.8	728.8
52.5°	684.6	680.9	680.9	680.9	681.6
55°	635.1	631.4	629.9	631.4	632.1
57.5°	582.6	581.1	578.9	579.6	577.4
60°	526.4	526.4	524.1	525.6	524.1
62.5°	471.7	473.2	470.9	470.9	469.4
65°	415.4	416.9	414.7	414.7	413.2
67.5°	357.7	359.9	356.9	356.9	355.4
70°	297.7	302.2	299.2	299.9	298.4
72.5°	243.7	245.9	242.9	242.9	241.4
75°	189.7	191.2	188.2	189.0	186.7
77.5°	136.5	138.7	135.7	136.5	135.7
80°	91.5	92.2	90.0	90.7	89.2
82.5°	53.2	54.0	53.2	52.5	51.7
85°	24.0	24.7	24.0	24.0	23.2
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)