

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: P973891

Luminaire Tested: FLR2-22-35HE-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973891
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

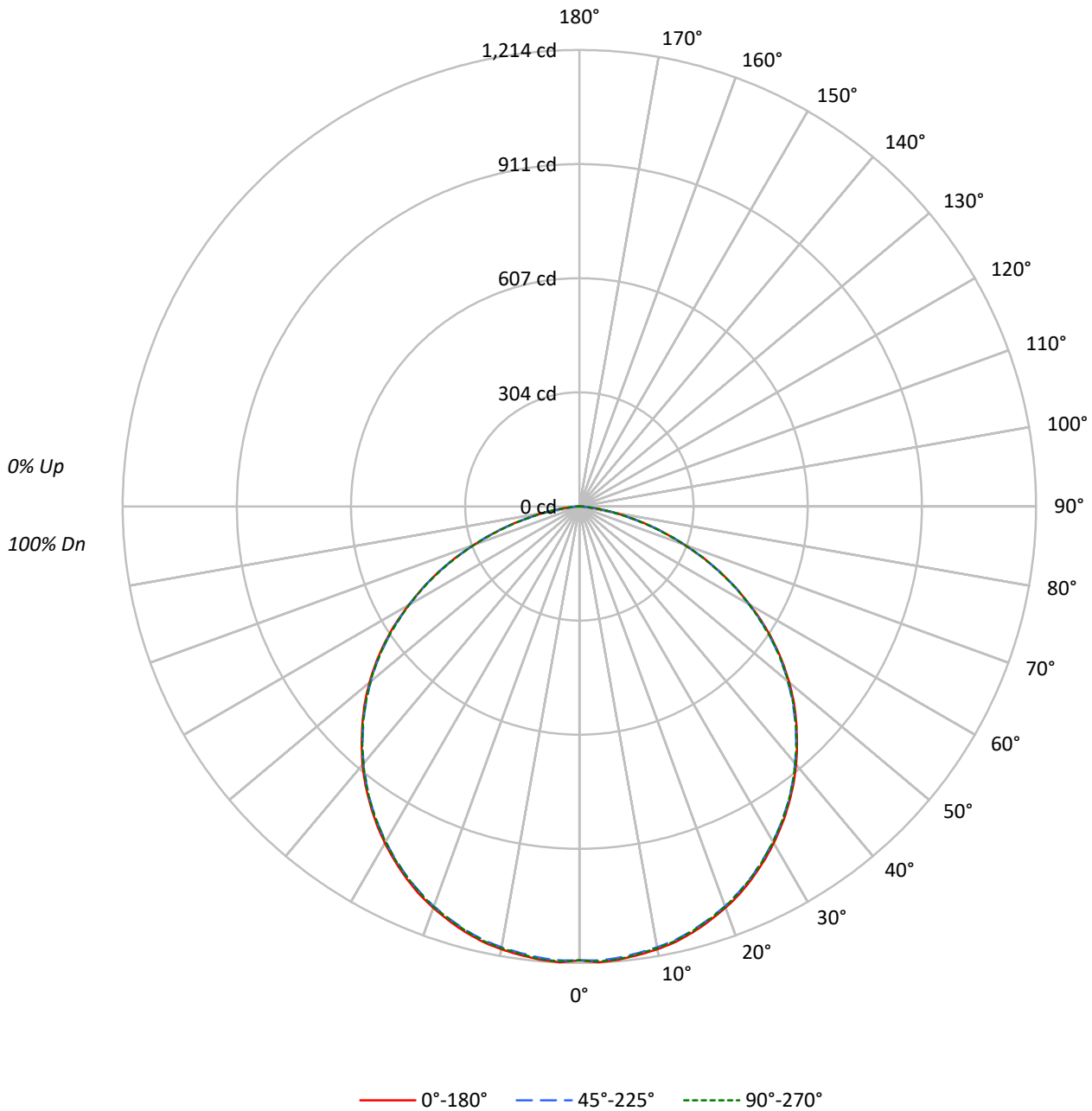
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3375.0 lumens
Efficiency: N/A
Efficacy: 124.1 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°	3248	3248	3248
5°	3268	3254	3264
10°	3267	3253	3259
15°	3265	3250	3254
20°	3253	3241	3245
25°	3236	3222	3225
30°	3213	3199	3201
35°	3184	3171	3174
40°	3150	3134	3137
45°	3103	3089	3095
50°	3049	3027	3033
55°	2962	2938	2948
60°	2816	2805	2805
65°	2630	2625	2615
70°	2328	2340	2334
75°	1961	1945	1930
80°	1409	1387	1375
85°	738	738	713

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3103 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.3	3.4
10°-20°	328.6	9.7
20°-30°	499.4	14.8
30°-40°	603.6	17.9
40°-50°	626.6	18.6
50°-60°	560.2	16.6
60°-70°	407.3	12.1
70°-80°	200.3	5.9
80°-90°	34.8	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°	942.3	27.9
0°-40°	1546.0	45.8
0°-60°	2732.7	81.0
0°-90°	3375.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3375.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1210	1196	1205	1200	1208	115
15°	1172	1158	1167	1164	1168	331
25°	1090	1078	1085	1083	1086	502
35°	969	962	965	966	966	606
45°	816	812	812	813	813	629
55°	631	628	626	628	628	563
65°	413	414	412	412	411	407
75°	189	190	187	188	186	200
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°	1206.9	1206.9	1206.9	1206.9	1206.9
2.5°	1213.6	1199.4	1208.3	1203.1	1211.3
5°	1209.8	1195.7	1204.6	1200.1	1208.3
7.5°	1203.1	1189.0	1197.9	1193.4	1200.1
10°	1195.7	1180.8	1190.5	1186.0	1192.7
12.5°	1186.0	1171.8	1180.8	1177.0	1183.0
15°	1171.8	1158.4	1166.6	1163.6	1168.1
17.5°	1154.7	1141.3	1149.5	1147.2	1150.9
20°	1136.0	1123.4	1131.6	1129.3	1133.1
22.5°	1115.2	1101.7	1109.2	1107.7	1110.7
25°	1089.8	1077.9	1085.3	1083.1	1086.1
27.5°	1063.0	1051.8	1057.8	1057.8	1059.3
30°	1033.9	1023.5	1029.4	1029.4	1030.2
32.5°	1002.6	994.4	998.1	998.9	998.9
35°	969.1	962.4	965.3	966.1	966.1
37.5°	934.0	927.3	929.6	931.0	931.0
40°	896.8	890.8	892.3	893.8	893.0
42.5°	856.5	852.0	852.8	854.3	854.3
45°	815.5	811.8	811.8	813.3	813.3
47.5°	773.8	770.0	768.5	770.0	770.0
50°	728.3	724.6	723.1	724.6	724.6
52.5°	680.6	676.9	676.9	676.9	677.6
55°	631.4	627.7	626.2	627.7	628.4
57.5°	579.2	577.7	575.5	576.2	574.0
60°	523.3	523.3	521.1	522.5	521.1
62.5°	468.9	470.4	468.1	468.1	466.6
65°	413.0	414.5	412.2	412.2	410.7
67.5°	355.6	357.8	354.8	354.8	353.3
70°	295.9	300.4	297.4	298.2	296.7
72.5°	242.3	244.5	241.5	241.5	240.0
75°	188.6	190.1	187.1	187.8	185.6
77.5°	135.7	137.9	134.9	135.7	134.9
80°	90.9	91.7	89.5	90.2	88.7
82.5°	52.9	53.7	52.9	52.2	51.4
85°	23.9	24.6	23.9	23.9	23.1
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)