

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: P973987

Luminaire Tested: FLR2-22-35HE-L850-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973987
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

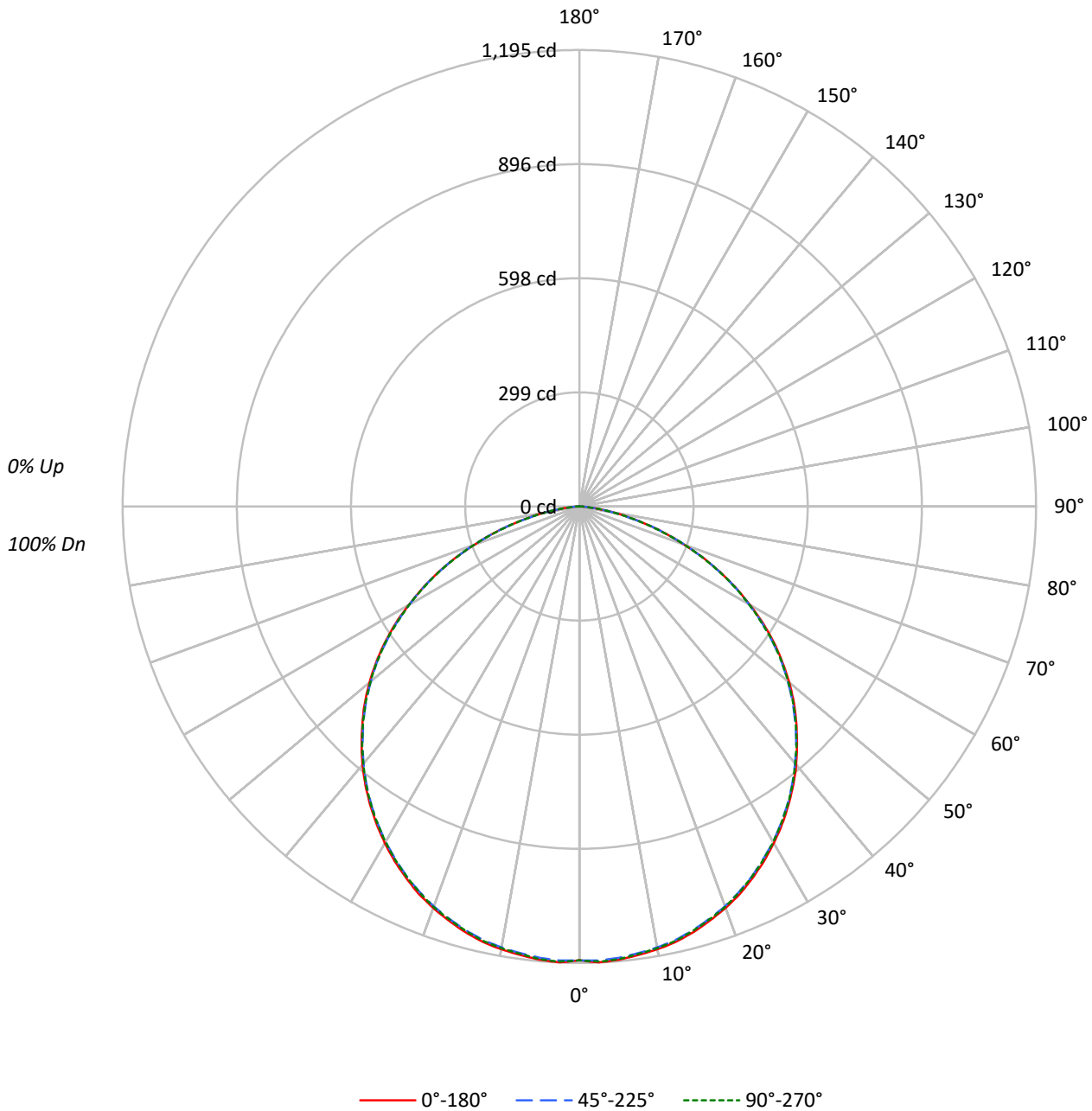
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322.9 lumens
Efficiency: N/A
Efficacy: 122.2 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3197	3197	3197
5°	3217	3204	3214
10°	3217	3203	3209
15°	3214	3200	3204
20°	3203	3190	3195
25°	3186	3173	3175
30°	3163	3149	3152
35°	3134	3122	3125
40°	3101	3086	3088
45°	3056	3041	3047
50°	3002	2980	2987
55°	2916	2892	2903
60°	2773	2761	2761
65°	2589	2585	2575
70°	2293	2304	2298
75°	1931	1915	1900
80°	1387	1365	1353
85°	726	726	704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3056 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	323.6	9.7
20°-30°	491.7	14.8
30°-40°	594.3	17.9
40°-50°	616.9	18.6
50°-60°	551.5	16.6
60°-70°	401.0	12.1
70°-80°	197.2	5.9
80°-90°	34.2	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°	927.8	27.9
0°-40°	1522.1	45.8
0°-60°	2690.5	81.0
0°-90°	3322.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1191	1177	1186	1182	1190	113
15°	1154	1140	1149	1146	1150	326
25°	1073	1061	1069	1066	1069	495
35°	954	948	950	951	951	597
45°	803	799	799	801	801	619
55°	622	618	616	618	619	554
65°	407	408	406	406	404	401
75°	186	187	184	185	183	197
85°	24	24	24	24	23	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1194.8	1180.9	1189.7	1184.5	1192.6
5°	1191.1	1177.2	1186.0	1181.6	1189.7
7.5°	1184.5	1170.6	1179.4	1175.0	1181.6
10°	1177.2	1162.5	1172.1	1167.7	1174.3
12.5°	1167.7	1153.7	1162.5	1158.9	1164.7
15°	1153.7	1140.5	1148.6	1145.6	1150.0
17.5°	1136.8	1123.6	1131.7	1129.5	1133.2
20°	1118.5	1106.0	1114.1	1111.9	1115.6
22.5°	1097.9	1084.7	1092.1	1090.6	1093.5
25°	1073.0	1061.2	1068.6	1066.4	1069.3
27.5°	1046.6	1035.6	1041.4	1041.4	1042.9
30°	1017.9	1007.7	1013.5	1013.5	1014.3
32.5°	987.1	979.0	982.7	983.4	983.4
35°	954.1	947.5	950.4	951.2	951.2
37.5°	919.6	913.0	915.2	916.7	916.7
40°	882.9	877.0	878.5	880.0	879.2
42.5°	843.3	838.9	839.6	841.1	841.1
45°	802.9	799.2	799.2	800.7	800.7
47.5°	761.8	758.1	756.7	758.1	758.1
50°	717.0	713.4	711.9	713.4	713.4
52.5°	670.1	666.4	666.4	666.4	667.1
55°	621.6	618.0	616.5	618.0	618.7
57.5°	570.3	568.8	566.6	567.3	565.1
60°	515.2	515.2	513.0	514.5	513.0
62.5°	461.6	463.1	460.9	460.9	459.4
65°	406.6	408.1	405.9	405.9	404.4
67.5°	350.1	352.3	349.3	349.3	347.9
70°	291.4	295.8	292.8	293.6	292.1
72.5°	238.5	240.7	237.8	237.8	236.3
75°	185.7	187.1	184.2	184.9	182.7
77.5°	133.6	135.8	132.8	133.6	132.8
80°	89.5	90.3	88.1	88.8	87.3
82.5°	52.1	52.8	52.1	51.4	50.6
85°	23.5	24.2	23.5	23.5	22.8
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)