

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: P973712

Luminaire Tested: FLR2-22-45-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973712
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: FLR2-22-45-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

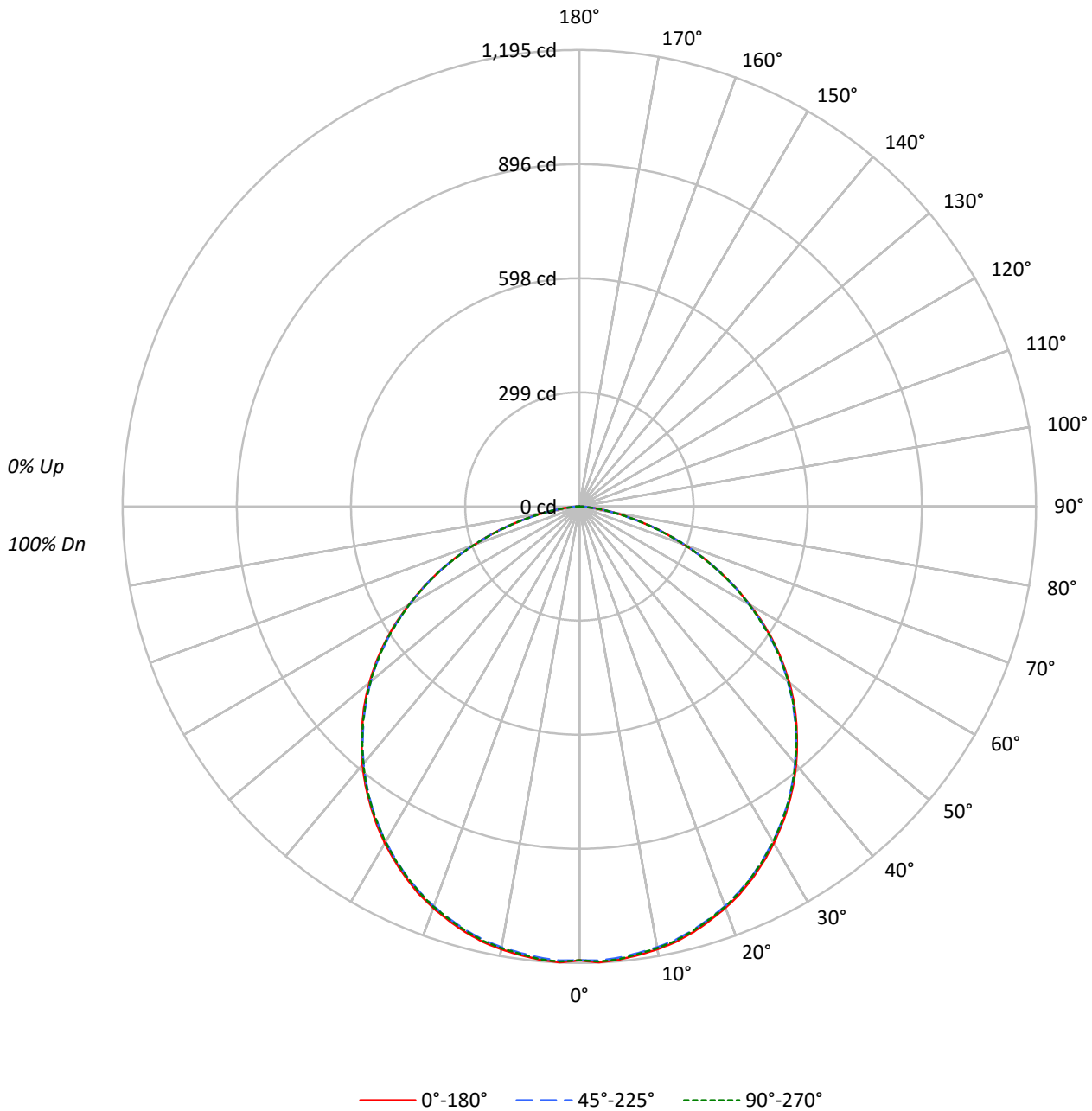
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3322.3 lumens
Efficiency: N/A
Efficacy: 92.0 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): 36.1
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									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	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°	3197	3197	3197
5°	3217	3203	3213
10°	3216	3202	3208
15°	3214	3199	3204
20°	3202	3190	3194
25°	3185	3172	3174
30°	3163	3149	3151
35°	3134	3122	3124
40°	3101	3086	3088
45°	3055	3041	3047
50°	3001	2980	2986
55°	2916	2892	2902
60°	2772	2760	2760
65°	2588	2584	2574
70°	2292	2304	2298
75°	1931	1915	1900
80°	1387	1365	1353
85°	726	726	701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3055 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.5	3.4
10°-20°	323.5	9.7
20°-30°	491.6	14.8
30°-40°	594.2	17.9
40°-50°	616.8	18.6
50°-60°	551.4	16.6
60°-70°	400.9	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°	927.6	27.9
0°-40°	1521.9	45.8
0°-60°	2690.1	81.0
0°-90°	3322.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1191	1177	1186	1181	1190	113
15°	1154	1140	1148	1146	1150	325
25°	1073	1061	1068	1066	1069	494
35°	954	947	950	951	951	597
45°	803	799	799	801	801	619
55°	622	618	616	618	619	554
65°	406	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°	1188.0	1188.0	1188.0	1188.0	1188.0
2.5°	1194.6	1180.7	1189.5	1184.3	1192.4
5°	1190.9	1177.0	1185.8	1181.4	1189.5
7.5°	1184.3	1170.4	1179.2	1174.8	1181.4
10°	1177.0	1162.3	1171.9	1167.5	1174.1
12.5°	1167.5	1153.5	1162.3	1158.7	1164.5
15°	1153.5	1140.3	1148.4	1145.5	1149.9
17.5°	1136.6	1123.4	1131.5	1129.3	1133.0
20°	1118.3	1105.8	1113.9	1111.7	1115.4
22.5°	1097.8	1084.5	1091.9	1090.4	1093.4
25°	1072.8	1061.1	1068.4	1066.2	1069.1
27.5°	1046.4	1035.4	1041.3	1041.3	1042.7
30°	1017.8	1007.5	1013.4	1013.4	1014.1
32.5°	987.0	978.9	982.6	983.3	983.3
35°	953.9	947.3	950.3	951.0	951.0
37.5°	919.4	912.8	915.0	916.5	916.5
40°	882.8	876.9	878.4	879.8	879.1
42.5°	843.1	838.7	839.5	840.9	840.9
45°	802.8	799.1	799.1	800.6	800.6
47.5°	761.7	758.0	756.5	758.0	758.0
50°	716.9	713.2	711.8	713.2	713.2
52.5°	670.0	666.3	666.3	666.3	667.0
55°	621.5	617.9	616.4	617.9	618.6
57.5°	570.2	568.7	566.5	567.2	565.0
60°	515.1	515.1	512.9	514.4	512.9
62.5°	461.6	463.0	460.8	460.8	459.4
65°	406.5	408.0	405.8	405.8	404.3
67.5°	350.0	352.2	349.3	349.3	347.8
70°	291.3	295.7	292.8	293.5	292.1
72.5°	238.5	240.7	237.7	237.7	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	22.7
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)