

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: P973631

Luminaire Tested: FLR2-22-35-L840-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973631
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: FLR2-22-35-L840-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

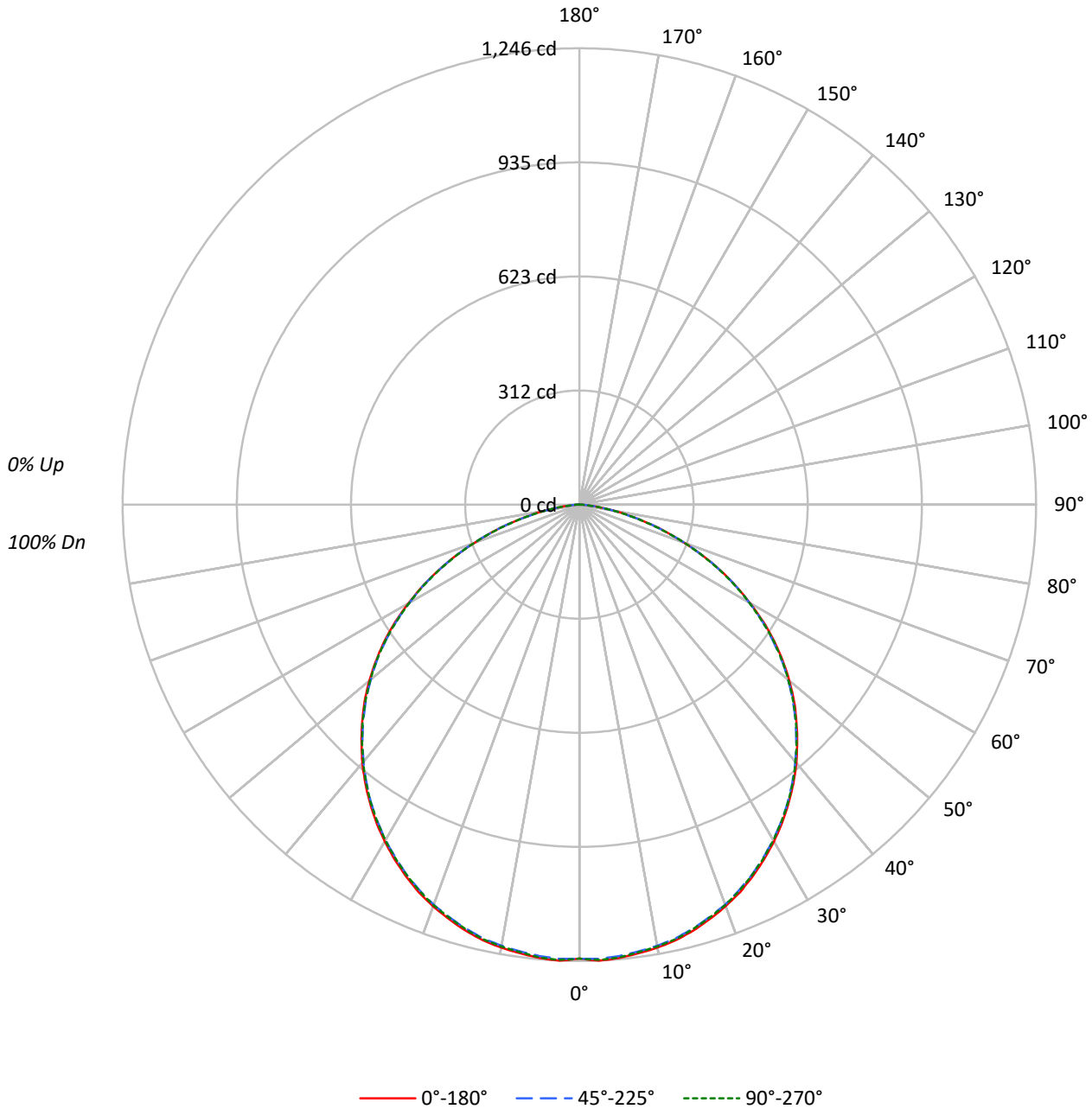
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3466.7 lumens
Efficiency: N/A
Efficacy: 124.3 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): 27.9
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°	3336	3336	3336
5°	3357	3343	3353
10°	3356	3341	3348
15°	3353	3338	3343
20°	3342	3328	3333
25°	3324	3310	3312
30°	3300	3286	3288
35°	3270	3257	3260
40°	3236	3220	3222
45°	3188	3173	3179
50°	3132	3109	3116
55°	3042	3018	3028
60°	2893	2880	2880
65°	2701	2696	2686
70°	2392	2404	2397
75°	2014	1998	1983
80°	1447	1424	1412
85°	756	756	732

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3188 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.4
10°-20°	337.6	9.7
20°-30°	513.0	14.8
30°-40°	620.0	17.9
40°-50°	643.6	18.6
50°-60°	575.4	16.6
60°-70°	418.3	12.1
70°-80°	205.7	5.9
80°-90°	35.7	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°	967.9	27.9
0°-40°	1588.0	45.8
0°-60°	2807.0	81.0
0°-90°	3466.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3466.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1240	1240	1240	1240	1240	
5°	1243	1228	1237	1233	1241	118
15°	1204	1190	1198	1195	1200	340
25°	1119	1107	1115	1112	1116	516
35°	995	988	992	992	992	623
45°	838	834	834	835	835	646
55°	648	645	643	645	646	578
65°	424	426	423	423	422	418
75°	194	195	192	193	191	206
85°	24	25	24	24	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.7	1239.7	1239.7	1239.7	1239.7
2.5°	1246.5	1232.0	1241.2	1235.8	1244.2
5°	1242.7	1228.2	1237.4	1232.8	1241.2
7.5°	1235.8	1221.3	1230.5	1225.9	1232.8
10°	1228.2	1212.9	1222.8	1218.2	1225.1
12.5°	1218.2	1203.7	1212.9	1209.0	1215.2
15°	1203.7	1189.9	1198.3	1195.2	1199.8
17.5°	1186.1	1172.3	1180.7	1178.4	1182.2
20°	1166.9	1153.9	1162.3	1160.0	1163.8
22.5°	1145.5	1131.7	1139.3	1137.8	1140.9
25°	1119.4	1107.2	1114.8	1112.5	1115.6
27.5°	1091.9	1080.4	1086.5	1086.5	1088.0
30°	1062.0	1051.3	1057.4	1057.4	1058.2
32.5°	1029.9	1021.4	1025.3	1026.0	1026.0
35°	995.4	988.5	991.6	992.3	992.3
37.5°	959.4	952.5	954.8	956.3	956.3
40°	921.1	915.0	916.5	918.1	917.3
42.5°	879.8	875.2	875.9	877.5	877.5
45°	837.7	833.8	833.8	835.4	835.4
47.5°	794.8	791.0	789.4	791.0	791.0
50°	748.1	744.3	742.7	744.3	744.3
52.5°	699.1	695.2	695.2	695.2	696.0
55°	648.5	644.7	643.2	644.7	645.5
57.5°	594.9	593.4	591.1	591.9	589.6
60°	537.5	537.5	535.2	536.7	535.2
62.5°	481.6	483.2	480.9	480.9	479.3
65°	424.2	425.7	423.4	423.4	421.9
67.5°	365.2	367.5	364.5	364.5	362.9
70°	304.0	308.6	305.5	306.3	304.7
72.5°	248.8	251.1	248.1	248.1	246.6
75°	193.7	195.3	192.2	193.0	190.7
77.5°	139.4	141.7	138.6	139.4	138.6
80°	93.4	94.2	91.9	92.6	91.1
82.5°	54.4	55.1	54.4	53.6	52.8
85°	24.5	25.3	24.5	24.5	23.7
87.5°	6.1	6.1	6.1	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)