

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: P973787

Luminaire Tested: FLR2-22-20HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973787
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: FLR2-22-20HE-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

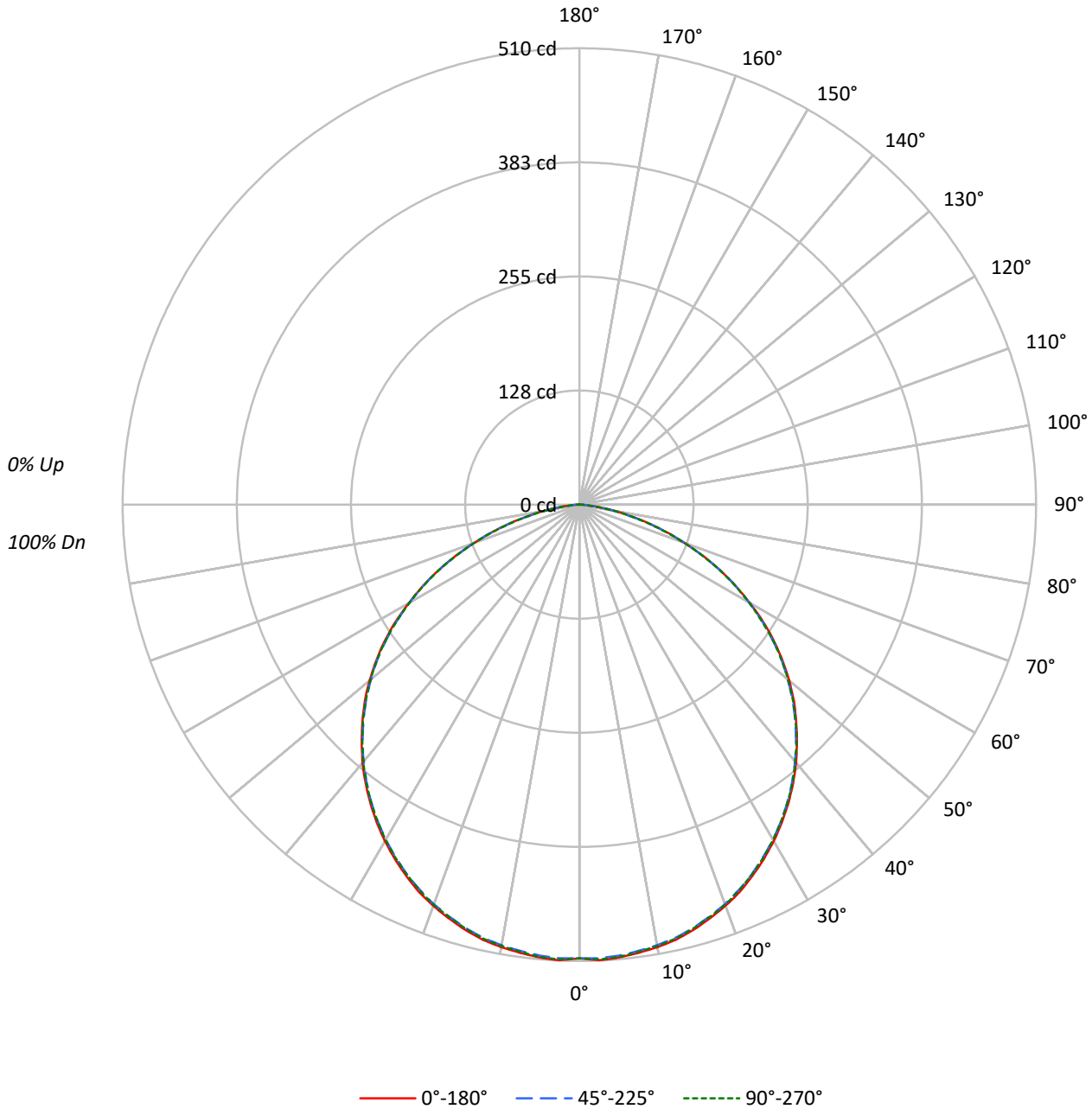
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1417.4 lumens
Efficiency: N/A
Efficacy: 95.8 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): 14.8
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°	1364	1364	1364
5°	1373	1367	1371
10°	1372	1366	1369
15°	1371	1365	1367
20°	1366	1361	1363
25°	1359	1353	1354
30°	1349	1344	1345
35°	1337	1332	1333
40°	1323	1316	1318
45°	1303	1297	1300
50°	1281	1271	1274
55°	1244	1234	1238
60°	1183	1178	1178
65°	1104	1102	1098
70°	978	983	980
75°	823	817	811
80°	592	583	578
85°	309	309	299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1303 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	3.4
10°-20°	138.0	9.7
20°-30°	209.7	14.8
30°-40°	253.5	17.9
40°-50°	263.1	18.6
50°-60°	235.3	16.6
60°-70°	171.0	12.1
70°-80°	84.1	5.9
80°-90°	14.6	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°	395.8	27.9
0°-40°	649.3	45.8
0°-60°	1147.7	81.0
0°-90°	1417.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	508	502	506	504	508	48
15°	492	486	490	489	491	139
25°	458	453	456	455	456	211
35°	407	404	405	406	406	255
45°	342	341	341	342	342	264
55°	265	264	263	264	264	236
65°	173	174	173	173	172	171
75°	79	80	79	79	78	84
85°	10	10	10	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.9	506.9	506.9	506.9	506.9
2.5°	509.7	503.7	507.5	505.3	508.7
5°	508.1	502.2	505.9	504.0	507.5
7.5°	505.3	499.3	503.1	501.2	504.0
10°	502.2	495.9	500.0	498.1	500.9
12.5°	498.1	492.1	495.9	494.3	496.8
15°	492.1	486.5	490.0	488.7	490.6
17.5°	484.9	479.3	482.8	481.8	483.4
20°	477.1	471.8	475.2	474.3	475.9
22.5°	468.4	462.7	465.9	465.2	466.5
25°	457.7	452.7	455.8	454.9	456.1
27.5°	446.4	441.7	444.2	444.2	444.9
30°	434.2	429.8	432.4	432.4	432.7
32.5°	421.1	417.6	419.2	419.5	419.5
35°	407.0	404.2	405.4	405.7	405.7
37.5°	392.3	389.5	390.4	391.0	391.0
40°	376.6	374.1	374.7	375.4	375.1
42.5°	359.7	357.8	358.2	358.8	358.8
45°	342.5	340.9	340.9	341.6	341.6
47.5°	325.0	323.4	322.8	323.4	323.4
50°	305.9	304.3	303.7	304.3	304.3
52.5°	285.8	284.3	284.3	284.3	284.6
55°	265.2	263.6	263.0	263.6	263.9
57.5°	243.3	242.6	241.7	242.0	241.1
60°	219.8	219.8	218.8	219.5	218.8
62.5°	196.9	197.5	196.6	196.6	196.0
65°	173.4	174.1	173.1	173.1	172.5
67.5°	149.3	150.3	149.0	149.0	148.4
70°	124.3	126.2	124.9	125.2	124.6
72.5°	101.7	102.7	101.4	101.4	100.8
75°	79.2	79.8	78.6	78.9	78.0
77.5°	57.0	57.9	56.7	57.0	56.7
80°	38.2	38.5	37.6	37.9	37.3
82.5°	22.2	22.5	22.2	21.9	21.6
85°	10.0	10.3	10.0	10.0	9.7
87.5°	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)