

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: P973955

Luminaire Tested: FLR2-22-20HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973955
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-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

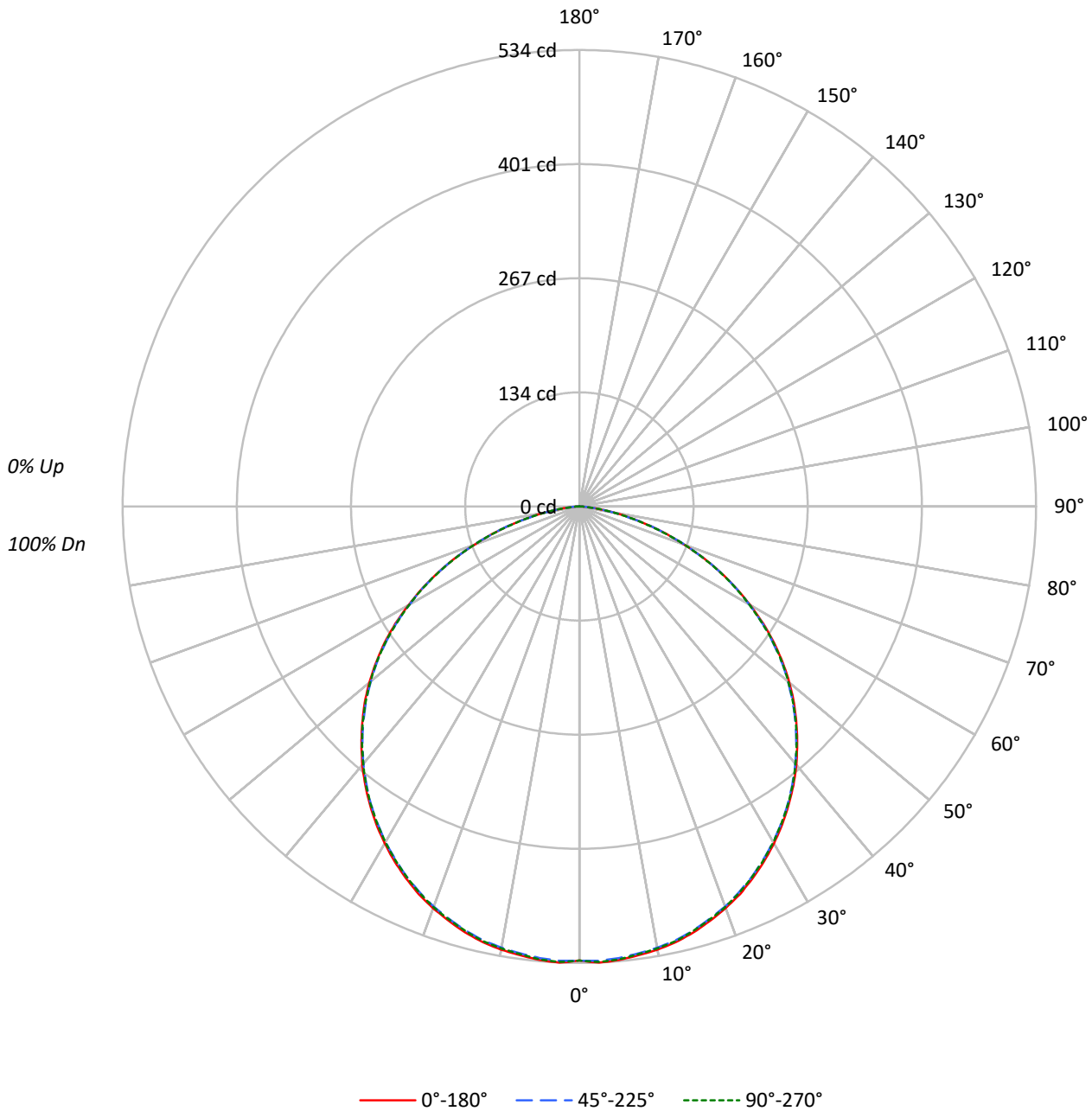
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1485.8 lumens
Efficiency: N/A
Efficacy: 100.4 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				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°	1430	1430	1430
5°	1439	1432	1437
10°	1438	1432	1435
15°	1437	1431	1433
20°	1432	1426	1428
25°	1425	1419	1420
30°	1414	1408	1409
35°	1401	1396	1397
40°	1387	1380	1381
45°	1366	1360	1362
50°	1342	1333	1335
55°	1304	1293	1298
60°	1240	1235	1235
65°	1158	1156	1151
70°	1025	1030	1028
75°	863	857	849
80°	620	611	606
85°	324	324	315

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1366 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.4
10°-20°	144.7	9.7
20°-30°	219.9	14.8
30°-40°	265.7	17.9
40°-50°	275.8	18.6
50°-60°	246.6	16.6
60°-70°	179.3	12.1
70°-80°	88.2	5.9
80°-90°	15.3	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°	414.8	27.9
0°-40°	680.6	45.8
0°-60°	1203.0	81.0
0°-90°	1485.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	533	526	530	528	532	51
15°	516	510	514	512	514	146
25°	480	474	478	477	478	221
35°	427	424	425	425	425	267
45°	359	357	357	358	358	277
55°	278	276	276	276	277	248
65°	182	182	182	182	181	179
75°	83	84	82	83	82	88
85°	10	11	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°	531.3	531.3	531.3	531.3	531.3
2.5°	534.2	528.0	531.9	529.6	533.3
5°	532.6	526.4	530.3	528.3	531.9
7.5°	529.6	523.4	527.4	525.4	528.3
10°	526.4	519.8	524.1	522.1	525.1
12.5°	522.1	515.9	519.8	518.2	520.8
15°	515.9	510.0	513.6	512.3	514.2
17.5°	508.3	502.4	506.0	505.0	506.7
20°	500.1	494.5	498.1	497.2	498.8
22.5°	490.9	485.0	488.3	487.6	489.0
25°	479.8	474.5	477.8	476.8	478.1
27.5°	468.0	463.0	465.7	465.7	466.3
30°	455.2	450.6	453.2	453.2	453.5
32.5°	441.4	437.8	439.4	439.7	439.7
35°	426.6	423.7	425.0	425.3	425.3
37.5°	411.2	408.2	409.2	409.9	409.9
40°	394.8	392.2	392.8	393.5	393.1
42.5°	377.1	375.1	375.4	376.1	376.1
45°	359.0	357.4	357.4	358.0	358.0
47.5°	340.6	339.0	338.3	339.0	339.0
50°	320.6	319.0	318.3	319.0	319.0
52.5°	299.6	298.0	298.0	298.0	298.3
55°	278.0	276.3	275.7	276.3	276.6
57.5°	255.0	254.3	253.3	253.7	252.7
60°	230.4	230.4	229.4	230.0	229.4
62.5°	206.4	207.1	206.1	206.1	205.4
65°	181.8	182.5	181.5	181.5	180.8
67.5°	156.5	157.5	156.2	156.2	155.5
70°	130.3	132.2	130.9	131.3	130.6
72.5°	106.7	107.6	106.3	106.3	105.7
75°	83.0	83.7	82.4	82.7	81.7
77.5°	59.7	60.7	59.4	59.7	59.4
80°	40.0	40.4	39.4	39.7	39.1
82.5°	23.3	23.6	23.3	23.0	22.6
85°	10.5	10.8	10.5	10.5	10.2
87.5°	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)