

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: P974015

Luminaire Tested: FLR2-22-20HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974015
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-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

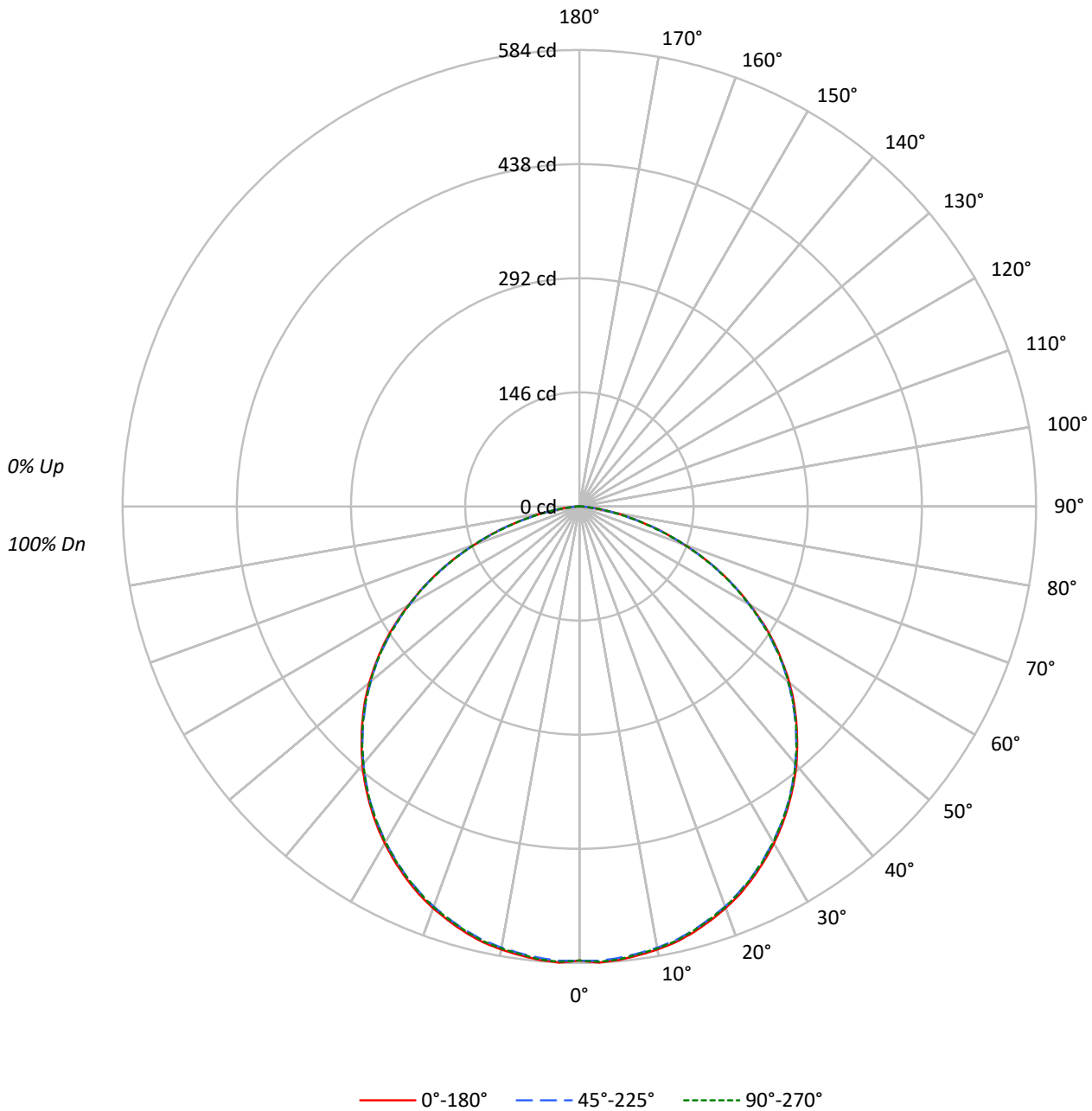
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1624.7 lumens
Efficiency: N/A
Efficacy: 109.8 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				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°	1563	1563	1563
5°	1573	1566	1571
10°	1573	1566	1569
15°	1572	1565	1567
20°	1566	1560	1562
25°	1558	1551	1553
30°	1546	1540	1541
35°	1532	1527	1528
40°	1516	1509	1510
45°	1494	1487	1490
50°	1468	1457	1460
55°	1426	1414	1419
60°	1356	1350	1350
65°	1266	1263	1259
70°	1121	1127	1124
75°	944	937	930
80°	679	668	662
85°	355	355	343

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1494 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.0	3.4
10°-20°	158.2	9.7
20°-30°	240.4	14.8
30°-40°	290.6	17.9
40°-50°	301.6	18.6
50°-60°	269.7	16.6
60°-70°	196.1	12.1
70°-80°	96.4	5.9
80°-90°	16.7	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°	453.6	27.9
0°-40°	744.3	45.8
0°-60°	1315.5	81.0
0°-90°	1624.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1624.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	581	581	581	581	581	
5°	582	576	580	578	582	55
15°	564	558	562	560	562	159
25°	525	519	522	521	523	242
35°	466	463	465	465	465	292
45°	393	391	391	392	392	303
55°	304	302	301	302	302	271
65°	199	200	198	198	198	196
75°	91	92	90	90	89	96
85°	12	12	12	12	11	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	581.0	581.0	581.0	581.0	581.0
2.5°	584.2	577.4	581.7	579.2	583.1
5°	582.4	575.6	579.9	577.8	581.7
7.5°	579.2	572.4	576.7	574.5	577.8
10°	575.6	568.4	573.1	570.9	574.2
12.5°	570.9	564.1	568.4	566.6	569.5
15°	564.1	557.7	561.6	560.2	562.3
17.5°	555.9	549.4	553.4	552.3	554.1
20°	546.9	540.8	544.7	543.7	545.5
22.5°	536.8	530.4	534.0	533.3	534.7
25°	524.6	518.9	522.5	521.4	522.9
27.5°	511.7	506.3	509.2	509.2	509.9
30°	497.7	492.7	495.6	495.6	495.9
32.5°	482.7	478.7	480.5	480.9	480.9
35°	466.5	463.3	464.7	465.1	465.1
37.5°	449.6	446.4	447.5	448.2	448.2
40°	431.7	428.8	429.6	430.3	429.9
42.5°	412.3	410.2	410.5	411.2	411.2
45°	392.6	390.8	390.8	391.5	391.5
47.5°	372.5	370.7	370.0	370.7	370.7
50°	350.6	348.8	348.1	348.8	348.8
52.5°	327.6	325.8	325.8	325.8	326.2
55°	304.0	302.2	301.4	302.2	302.5
57.5°	278.8	278.1	277.0	277.4	276.3
60°	251.9	251.9	250.8	251.6	250.8
62.5°	225.7	226.4	225.4	225.4	224.6
65°	198.8	199.5	198.4	198.4	197.7
67.5°	171.2	172.3	170.8	170.8	170.1
70°	142.5	144.6	143.2	143.5	142.8
72.5°	116.6	117.7	116.3	116.3	115.6
75°	90.8	91.5	90.1	90.4	89.4
77.5°	65.3	66.4	65.0	65.3	65.0
80°	43.8	44.1	43.1	43.4	42.7
82.5°	25.5	25.8	25.5	25.1	24.8
85°	11.5	11.8	11.5	11.5	11.1
87.5°	2.9	2.9	2.9	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)