

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: P975011

Luminaire Tested: FLR2-24-20HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-20HE-L850-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

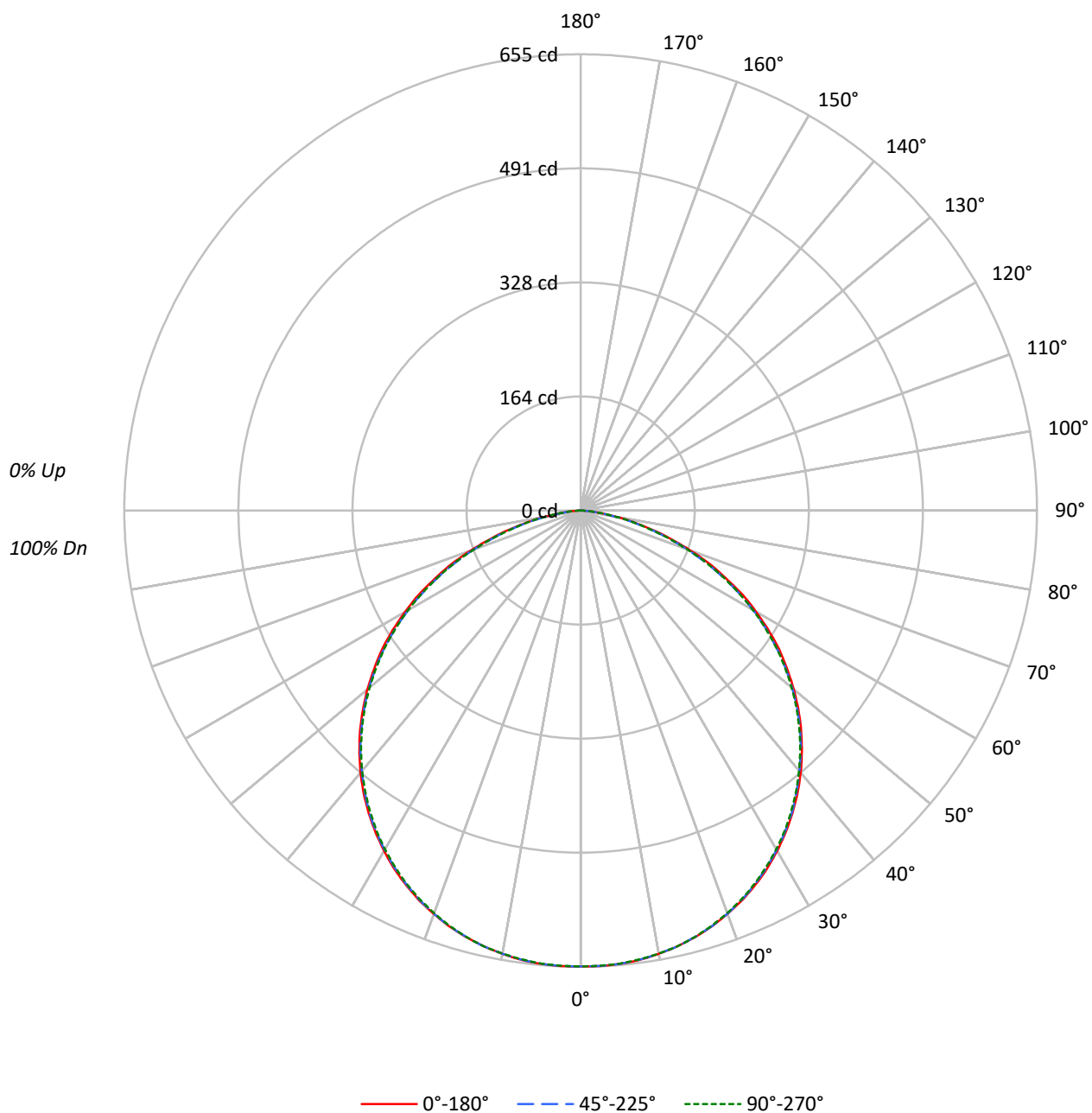
Lumens per Lamp: N/A
Luminaire Lumens: 1850.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	881	881	881
5°	883	883	882
10°	883	883	882
15°	883	883	883
20°	882	882	881
25°	881	879	878
30°	877	874	873
35°	871	869	866
40°	863	858	857
45°	852	847	845
50°	836	830	827
55°	817	805	804
60°	783	769	769
65°	732	715	717
70°	659	638	637
75°	553	531	529
80°	404	384	401
85°	228	210	215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 852 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.4
10°-20°	179.0	9.7
20°-30°	272.9	14.8
30°-40°	330.7	17.9
40°-50°	343.5	18.6
50°-60°	307.3	16.6
60°-70°	223.9	12.1
70°-80°	110.9	6.0
80°-90°	19.8	1.1
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°	514.1	27.8
0°-40°	844.7	45.7
0°-60°	1495.5	80.8
0°-90°	1850.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1850.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	655	655	655	655	655	
5°	653	654	653	653	653	62
15°	634	634	634	634	634	179
25°	593	593	592	592	591	273
35°	530	530	529	528	527	332
45°	448	447	445	444	444	345
55°	348	346	343	343	343	310
65°	230	228	224	226	225	228
75°	106	105	102	104	102	113
85°	15	14	14	14	14	20
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	654.6	654.6	654.6	654.6	654.6
2.5°	654.6	654.4	654.4	654.6	654.1
5°	653.4	653.7	653.4	653.4	653.0
7.5°	650.8	650.6	650.4	650.6	649.9
10°	646.4	646.4	646.1	646.4	645.9
12.5°	641.0	641.0	641.0	641.2	641.0
15°	634.2	633.9	633.9	634.4	633.9
17.5°	626.2	625.9	625.9	625.7	625.2
20°	616.3	616.3	616.1	615.8	615.1
22.5°	605.8	605.5	604.8	604.8	603.9
25°	593.3	592.6	592.1	591.9	591.2
27.5°	579.7	578.7	578.0	577.6	576.9
30°	564.4	563.5	562.8	562.1	561.6
32.5°	548.0	547.5	546.3	546.1	545.2
35°	530.4	529.6	528.9	528.0	527.1
37.5°	511.6	510.9	509.2	508.7	508.0
40°	491.6	490.7	488.5	488.5	487.8
42.5°	470.2	469.3	467.9	466.9	466.5
45°	447.9	447.0	445.3	444.4	443.9
47.5°	424.2	423.5	421.6	420.9	420.2
50°	399.5	398.6	396.5	396.0	395.3
52.5°	373.7	373.2	370.4	370.2	369.5
55°	348.1	345.5	343.2	343.2	342.7
57.5°	319.9	318.0	315.0	315.0	314.5
60°	290.8	289.1	285.6	286.1	285.6
62.5°	262.4	258.8	255.5	257.0	255.8
65°	229.9	228.1	224.5	225.5	225.2
67.5°	200.4	196.8	193.5	195.4	194.5
70°	167.5	165.6	162.3	164.2	161.8
72.5°	136.5	134.8	131.5	133.6	131.3
75°	106.4	104.8	102.2	104.1	101.7
77.5°	78.0	76.8	74.5	76.3	76.8
80°	52.1	50.7	49.6	51.2	51.7
82.5°	30.5	29.6	29.1	29.4	30.5
85°	14.8	13.6	13.6	13.9	13.9
87.5°	4.0	3.5	4.0	4.2	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)