

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: P973865

Luminaire Tested: FLR2-22-20HE-L935-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973865
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-L935-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

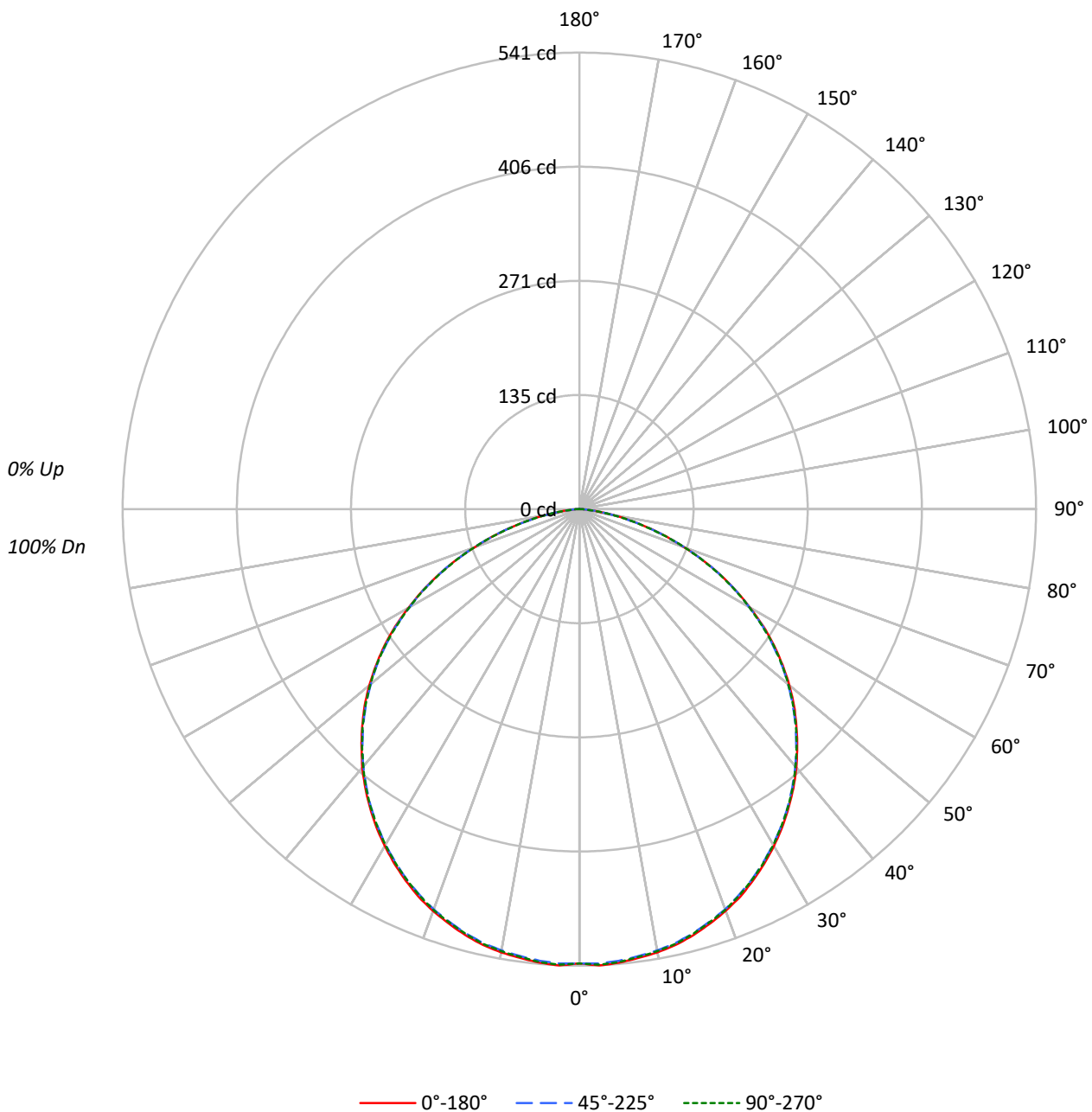
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.3 lumens
Efficiency: N/A
Efficacy: 101.7 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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CATALOG NUMBER: FLR2-22-20HE-L935-CP250

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°	1449	1449	1449
5°	1458	1451	1456
10°	1457	1451	1454
15°	1456	1450	1451
20°	1451	1445	1447
25°	1443	1437	1438
30°	1433	1427	1428
35°	1420	1415	1416
40°	1405	1398	1399
45°	1384	1378	1380
50°	1360	1350	1353
55°	1321	1310	1315
60°	1256	1251	1251
65°	1173	1171	1167
70°	1039	1044	1041
75°	874	868	861
80°	629	618	614
85°	327	327	318

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	3.4
10°-20°	146.6	9.7
20°-30°	222.8	14.8
30°-40°	269.2	17.9
40°-50°	279.4	18.6
50°-60°	249.8	16.6
60°-70°	181.7	12.1
70°-80°	89.3	5.9
80°-90°	15.5	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°	420.3	27.9
0°-40°	689.5	45.8
0°-60°	1218.8	81.0
0°-90°	1505.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	538	538	538	538	538	
5°	540	533	537	535	539	51
15°	523	517	520	519	521	147
25°	486	481	484	483	484	224
35°	432	429	431	431	431	270
45°	364	362	362	363	363	281
55°	282	280	279	280	280	251
65°	184	185	184	184	183	182
75°	84	85	84	84	83	89
85°	11	11	11	11	10	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	538.3	538.3	538.3	538.3	538.3
2.5°	541.3	534.9	538.9	536.6	540.3
5°	539.6	533.3	537.3	535.3	538.9
7.5°	536.6	530.3	534.3	532.3	535.3
10°	533.3	526.6	531.0	529.0	532.0
12.5°	529.0	522.6	526.6	525.0	527.6
15°	522.6	516.7	520.3	519.0	521.0
17.5°	515.0	509.0	512.7	511.7	513.3
20°	506.7	501.0	504.7	503.7	505.4
22.5°	497.4	491.4	494.7	494.1	495.4
25°	486.1	480.8	484.1	483.1	484.4
27.5°	474.1	469.1	471.8	471.8	472.4
30°	461.1	456.5	459.1	459.1	459.5
32.5°	447.2	443.5	445.2	445.5	445.5
35°	432.2	429.2	430.6	430.9	430.9
37.5°	416.6	413.6	414.6	415.3	415.3
40°	400.0	397.3	398.0	398.6	398.3
42.5°	382.0	380.0	380.3	381.0	381.0
45°	363.7	362.1	362.1	362.7	362.7
47.5°	345.1	343.4	342.8	343.4	343.4
50°	324.8	323.2	322.5	323.2	323.2
52.5°	303.5	301.9	301.9	301.9	302.2
55°	281.6	279.9	279.3	279.9	280.3
57.5°	258.3	257.7	256.7	257.0	256.0
60°	233.4	233.4	232.4	233.1	232.4
62.5°	209.1	209.8	208.8	208.8	208.1
65°	184.2	184.9	183.9	183.9	183.2
67.5°	158.6	159.6	158.3	158.3	157.6
70°	132.0	134.0	132.7	133.0	132.3
72.5°	108.1	109.1	107.7	107.7	107.1
75°	84.1	84.8	83.5	83.8	82.8
77.5°	60.5	61.5	60.2	60.5	60.2
80°	40.6	40.9	39.9	40.2	39.6
82.5°	23.6	23.9	23.6	23.3	22.9
85°	10.6	11.0	10.6	10.6	10.3
87.5°	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)