

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: P973089

Luminaire Tested: FLR2-14-20HE-L930-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973089
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-20HE-L930-CP125
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 3000CCT & 90 CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

Summary

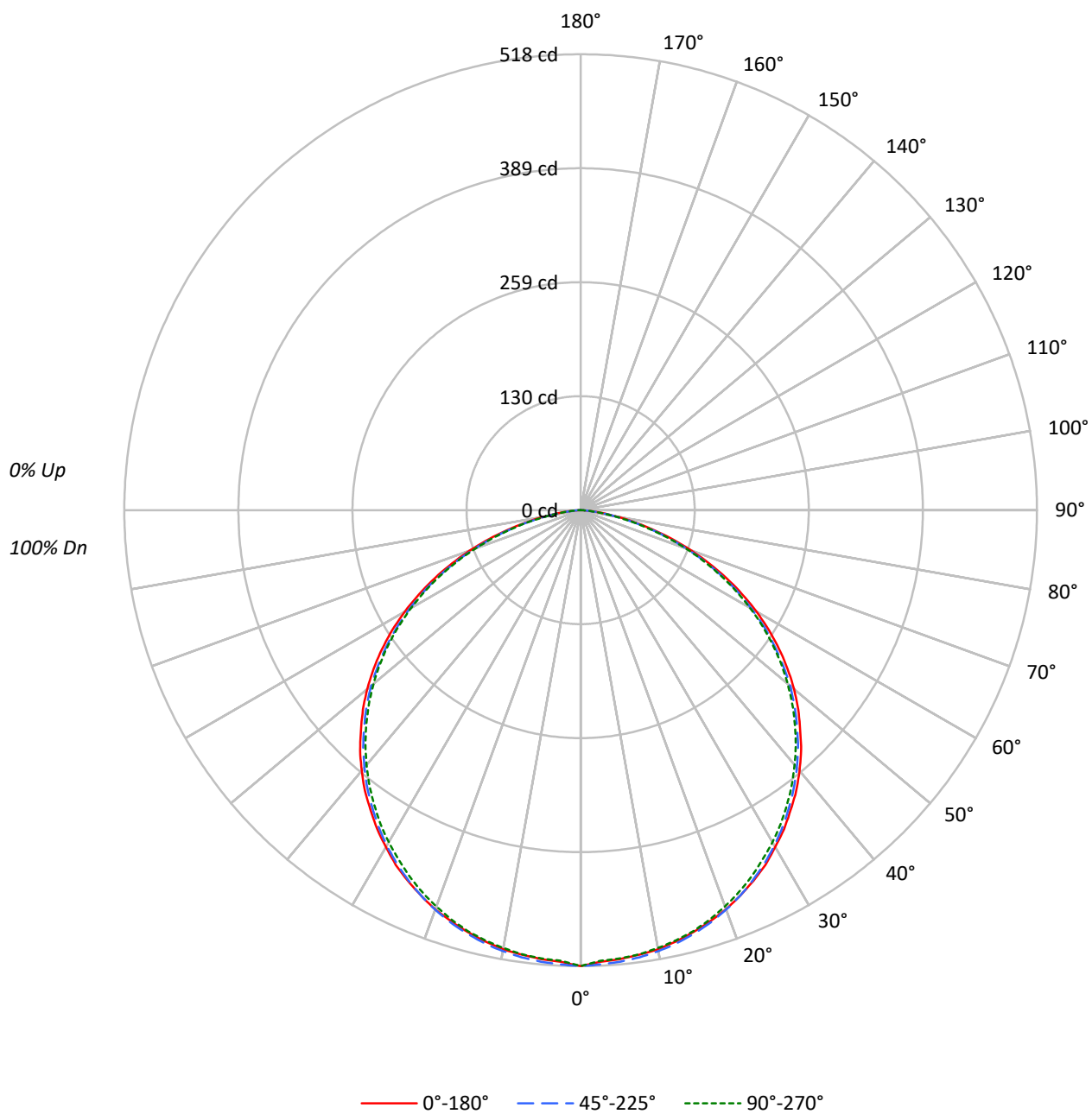
Lumens per Lamp: N/A
Luminaire Lumens: 1449.7 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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					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		
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	62	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	70	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	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	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	39	32	27	38	32	27	38	31	27	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1394	1394	1394
5°	1383	1391	1381
10°	1384	1390	1380
15°	1382	1387	1379
20°	1382	1383	1372
25°	1379	1376	1363
30°	1373	1367	1354
35°	1366	1355	1342
40°	1358	1341	1328
45°	1341	1322	1309
50°	1324	1299	1284
55°	1291	1260	1248
60°	1241	1206	1195
65°	1161	1128	1116
70°	1047	1006	997
75°	879	834	824
80°	638	595	578
85°	337	296	272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1341 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.1	3.4
10°-20°	140.9	9.7
20°-30°	214.1	14.8
30°-40°	258.9	17.9
40°-50°	269.1	18.6
50°-60°	240.9	16.6
60°-70°	175.7	12.1
70°-80°	86.5	6.0
80°-90°	14.5	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°	404.0	27.9
0°-40°	662.9	45.7
0°-60°	1173.0	80.9
0°-90°	1449.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1449.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	518	518	518	518	518	
5°	512	518	515	520	511	49
15°	496	501	498	502	495	140
25°	464	467	464	466	459	214
35°	416	417	412	414	408	260
45°	352	352	348	348	344	272
55°	275	273	269	268	266	246
65°	182	180	177	176	175	180
75°	84	83	80	79	79	90
85°	11	10	10	9	9	16
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	518.0	518.0	518.0	518.0	518.0
2.5°	513.5	519.2	516.5	521.6	512.4
5°	512.0	517.5	515.0	519.9	511.3
7.5°	509.4	515.2	512.4	517.1	509.0
10°	506.6	511.7	508.7	513.5	505.1
12.5°	501.7	506.8	504.0	508.3	500.6
15°	496.1	500.6	498.0	502.3	495.0
17.5°	489.7	493.9	491.2	495.0	487.7
20°	482.6	486.0	483.0	486.2	479.2
22.5°	473.8	477.0	473.8	475.9	469.7
25°	464.4	466.7	463.5	465.7	459.2
27.5°	454.3	455.6	452.4	454.1	447.4
30°	441.9	443.4	439.9	442.1	435.6
32.5°	429.8	430.7	426.8	428.6	422.8
35°	415.7	416.6	412.5	414.2	408.4
37.5°	402.2	402.0	397.7	398.8	393.8
40°	386.5	386.3	381.8	382.7	378.0
42.5°	370.5	369.6	365.3	365.7	361.5
45°	352.5	352.0	347.5	348.2	343.9
47.5°	335.1	333.8	329.3	329.5	325.9
50°	316.2	314.3	310.4	310.0	306.8
52.5°	296.1	293.9	289.6	289.2	286.9
55°	275.1	272.7	268.6	268.0	266.1
57.5°	253.4	250.4	247.2	245.9	244.4
60°	230.5	227.7	224.0	222.7	222.1
62.5°	206.7	203.9	201.1	199.8	199.0
65°	182.4	180.3	177.1	175.8	175.2
67.5°	157.8	155.9	152.9	151.4	151.1
70°	133.1	131.2	127.8	126.9	126.7
72.5°	108.5	106.8	103.5	102.7	102.7
75°	84.5	83.0	80.2	79.3	79.3
77.5°	61.7	60.5	58.3	57.2	57.2
80°	41.2	40.3	38.4	37.5	37.3
82.5°	23.8	23.4	21.7	20.8	21.2
85°	10.9	10.5	9.6	8.6	8.8
87.5°	2.8	2.6	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)