

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: P973314

Luminaire Tested: FLR2-14-20HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973314
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-L950-CP375
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

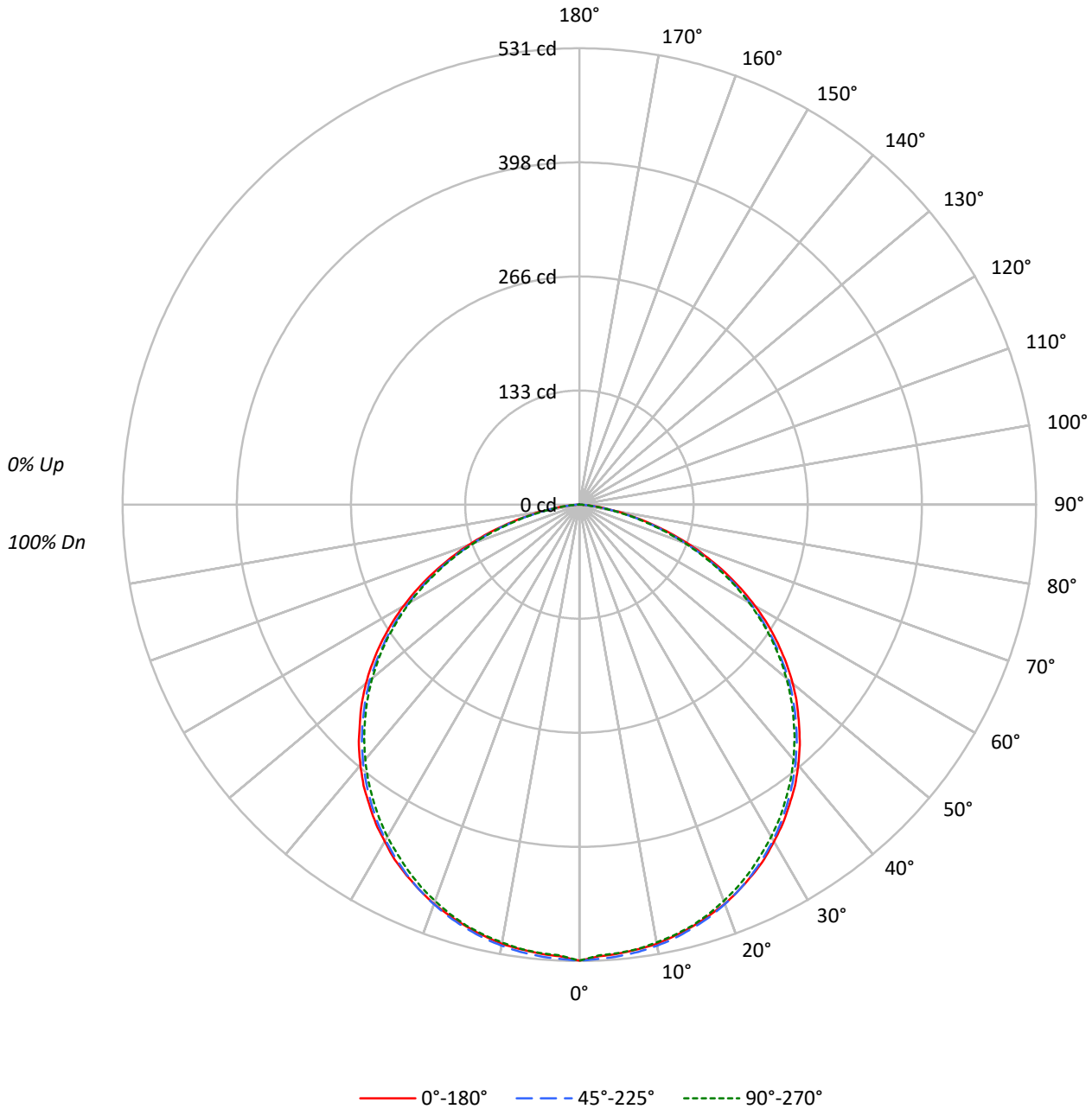
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1485.1 lumens
Efficiency: N/A
Efficacy: 100.3 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

TEST NUMBER: P973314
CATALOG NUMBER: FLR2-14-20HE-L950-CP375

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	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	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
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	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1428	1428	1428
5°	1417	1425	1415
10°	1418	1424	1414
15°	1416	1421	1413
20°	1416	1417	1406
25°	1412	1410	1397
30°	1406	1400	1387
35°	1399	1388	1374
40°	1391	1374	1360
45°	1374	1355	1341
50°	1356	1331	1316
55°	1322	1291	1279
60°	1271	1235	1224
65°	1190	1155	1142
70°	1073	1030	1021
75°	899	854	845
80°	654	609	592
85°	346	306	278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1374 cd/sqm



TEST NUMBER: P973314
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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.4
10°-20°	144.3	9.7
20°-30°	219.3	14.8
30°-40°	265.3	17.9
40°-50°	275.7	18.6
50°-60°	246.8	16.6
60°-70°	180.0	12.1
70°-80°	88.6	6.0
80°-90°	14.8	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°	413.9	27.9
0°-40°	679.1	45.7
0°-60°	1201.6	80.9
0°-90°	1485.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1485.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	524	530	528	533	524	50
15°	508	513	510	515	507	144
25°	476	478	475	477	470	219
35°	426	427	423	424	418	267
45°	361	361	356	357	352	279
55°	282	279	275	274	273	252
65°	187	185	181	180	179	185
75°	86	85	82	81	81	92
85°	11	11	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°	530.6	530.6	530.6	530.6	530.6
2.5°	526.0	531.9	529.1	534.3	524.9
5°	524.5	530.2	527.5	532.6	523.8
7.5°	521.8	527.8	524.9	529.7	521.4
10°	519.0	524.2	521.2	526.0	517.4
12.5°	513.9	519.2	516.3	520.7	512.8
15°	508.2	512.8	510.2	514.6	507.1
17.5°	501.6	506.0	503.2	507.1	499.6
20°	494.4	497.9	494.8	498.1	490.9
22.5°	485.4	488.7	485.4	487.6	481.2
25°	475.7	478.1	474.8	477.0	470.4
27.5°	465.4	466.7	463.4	465.2	458.4
30°	452.6	454.2	450.7	452.9	446.3
32.5°	440.3	441.2	437.3	439.0	433.1
35°	425.9	426.7	422.6	424.3	418.4
37.5°	412.0	411.8	407.4	408.5	403.5
40°	396.0	395.8	391.2	392.0	387.2
42.5°	379.5	378.6	374.2	374.7	370.3
45°	361.1	360.6	356.0	356.7	352.3
47.5°	343.3	342.0	337.3	337.6	333.8
50°	323.9	322.0	318.0	317.6	314.3
52.5°	303.3	301.1	296.7	296.3	293.9
55°	281.8	279.4	275.2	274.5	272.6
57.5°	259.6	256.5	253.2	251.9	250.4
60°	236.1	233.2	229.5	228.2	227.5
62.5°	211.7	208.9	206.0	204.7	203.8
65°	186.9	184.7	181.4	180.1	179.4
67.5°	161.6	159.7	156.6	155.1	154.8
70°	136.4	134.4	130.9	130.0	129.8
72.5°	111.1	109.4	106.1	105.2	105.2
75°	86.5	85.0	82.1	81.3	81.3
77.5°	63.3	61.9	59.7	58.6	58.6
80°	42.2	41.3	39.3	38.4	38.2
82.5°	24.4	23.9	22.2	21.3	21.7
85°	11.2	10.8	9.9	8.8	9.0
87.5°	2.9	2.6	2.0	1.5	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)