

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: P973279

Luminaire Tested: FLR2-14-20HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973279
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-L850-CP375
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

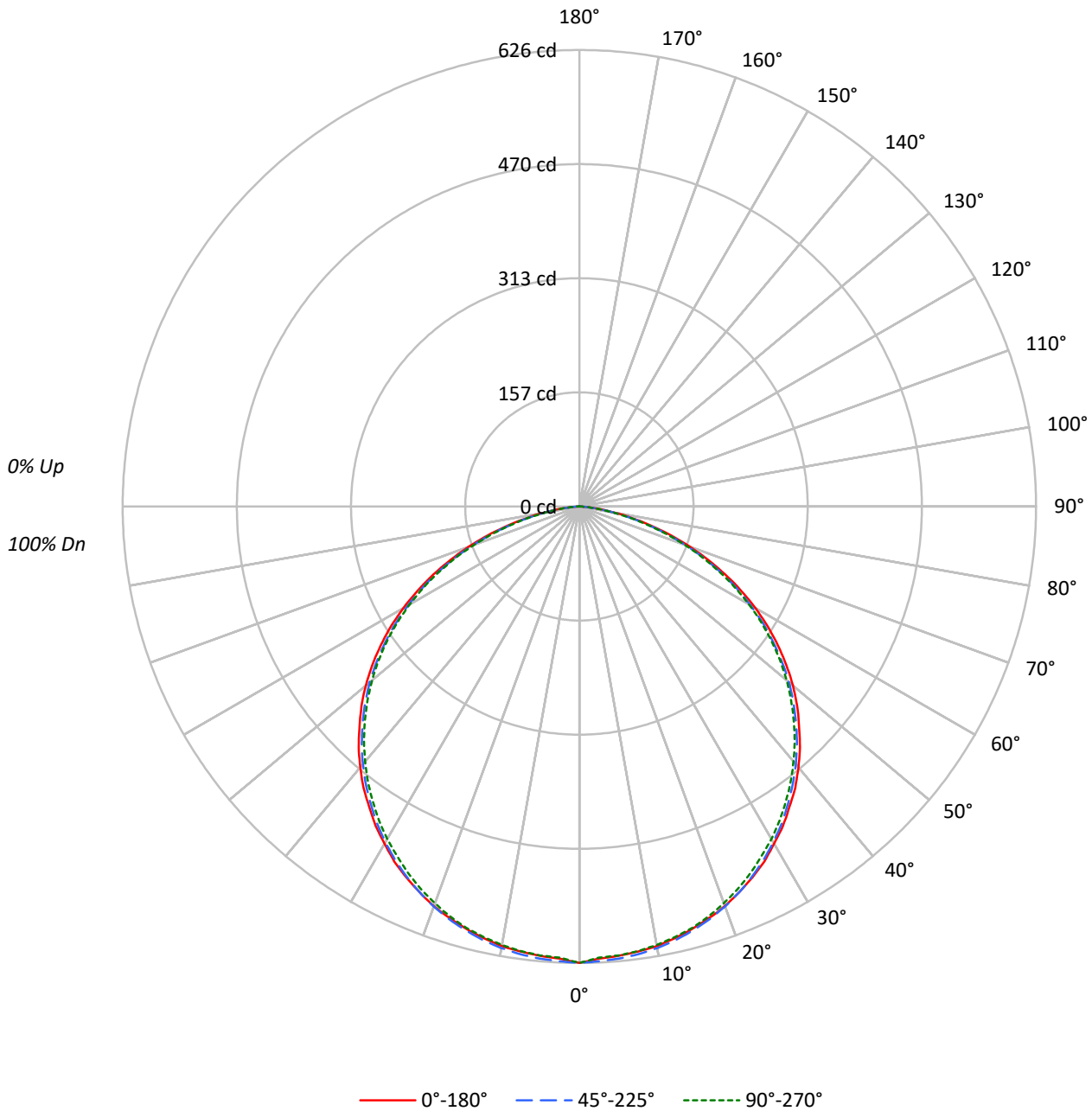
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.1 lumens
Efficiency: N/A
Efficacy: 118.4 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: P973279
CATALOG NUMBER: FLR2-14-20HE-L850-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°	1685	1685	1685
5°	1671	1681	1669
10°	1673	1680	1668
15°	1670	1677	1667
20°	1670	1672	1658
25°	1666	1663	1648
30°	1659	1652	1636
35°	1650	1638	1622
40°	1641	1621	1605
45°	1621	1598	1582
50°	1600	1571	1552
55°	1559	1523	1509
60°	1499	1457	1445
65°	1404	1363	1348
70°	1266	1215	1205
75°	1062	1007	997
80°	770	719	699
85°	408	361	327

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1621 cd/sqm



TEST NUMBER: P973279
 CATALOG NUMBER: FLR2-14-20HE-L850-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.4
10°-20°	170.3	9.7
20°-30°	258.7	14.8
30°-40°	312.9	17.9
40°-50°	325.2	18.6
50°-60°	291.2	16.6
60°-70°	212.4	12.1
70°-80°	104.6	6.0
80°-90°	17.5	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°	488.3	27.9
0°-40°	801.2	45.7
0°-60°	1417.6	80.9
0°-90°	1752.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	619	626	622	628	618	59
15°	600	605	602	607	598	169
25°	561	564	560	563	555	259
35°	502	503	498	501	494	315
45°	426	426	420	421	416	329
55°	332	330	325	324	322	297
65°	220	218	214	212	212	218
75°	102	100	97	96	96	109
85°	13	13	12	10	11	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	626.0	626.0	626.0	626.0	626.0
2.5°	620.6	627.6	624.2	630.4	619.3
5°	618.7	625.5	622.4	628.3	618.0
7.5°	615.6	622.6	619.3	625.0	615.1
10°	612.3	618.5	614.9	620.6	610.5
12.5°	606.3	612.5	609.2	614.3	605.0
15°	599.6	605.0	601.9	607.1	598.3
17.5°	591.8	597.0	593.6	598.3	589.5
20°	583.3	587.4	583.8	587.7	579.1
22.5°	572.6	576.5	572.6	575.2	567.7
25°	561.2	564.1	560.2	562.8	555.0
27.5°	549.0	550.6	546.7	548.8	540.8
30°	534.0	535.8	531.7	534.3	526.5
32.5°	519.5	520.5	515.9	518.0	511.0
35°	502.4	503.4	498.5	500.6	493.6
37.5°	486.1	485.8	480.6	481.9	476.0
40°	467.2	466.9	461.5	462.5	456.8
42.5°	447.7	446.7	441.5	442.0	436.9
45°	426.0	425.5	420.0	420.8	415.6
47.5°	405.0	403.4	398.0	398.2	393.8
50°	382.2	379.9	375.2	374.7	370.8
52.5°	357.8	355.2	350.1	349.5	346.7
55°	332.4	329.6	324.7	323.9	321.6
57.5°	306.3	302.6	298.8	297.2	295.4
60°	278.5	275.2	270.8	269.2	268.4
62.5°	249.8	246.4	243.0	241.5	240.5
65°	220.5	217.9	214.0	212.5	211.7
67.5°	190.7	188.4	184.7	182.9	182.7
70°	160.9	158.6	154.4	153.4	153.1
72.5°	131.1	129.0	125.1	124.1	124.1
75°	102.1	100.3	96.9	95.9	95.9
77.5°	74.6	73.1	70.5	69.2	69.2
80°	49.7	48.7	46.4	45.3	45.1
82.5°	28.8	28.2	26.2	25.1	25.7
85°	13.2	12.7	11.7	10.4	10.6
87.5°	3.4	3.1	2.3	1.8	2.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)