

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: P973174

Luminaire Tested: FLR2-14-20HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973174
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-L935-CP375
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

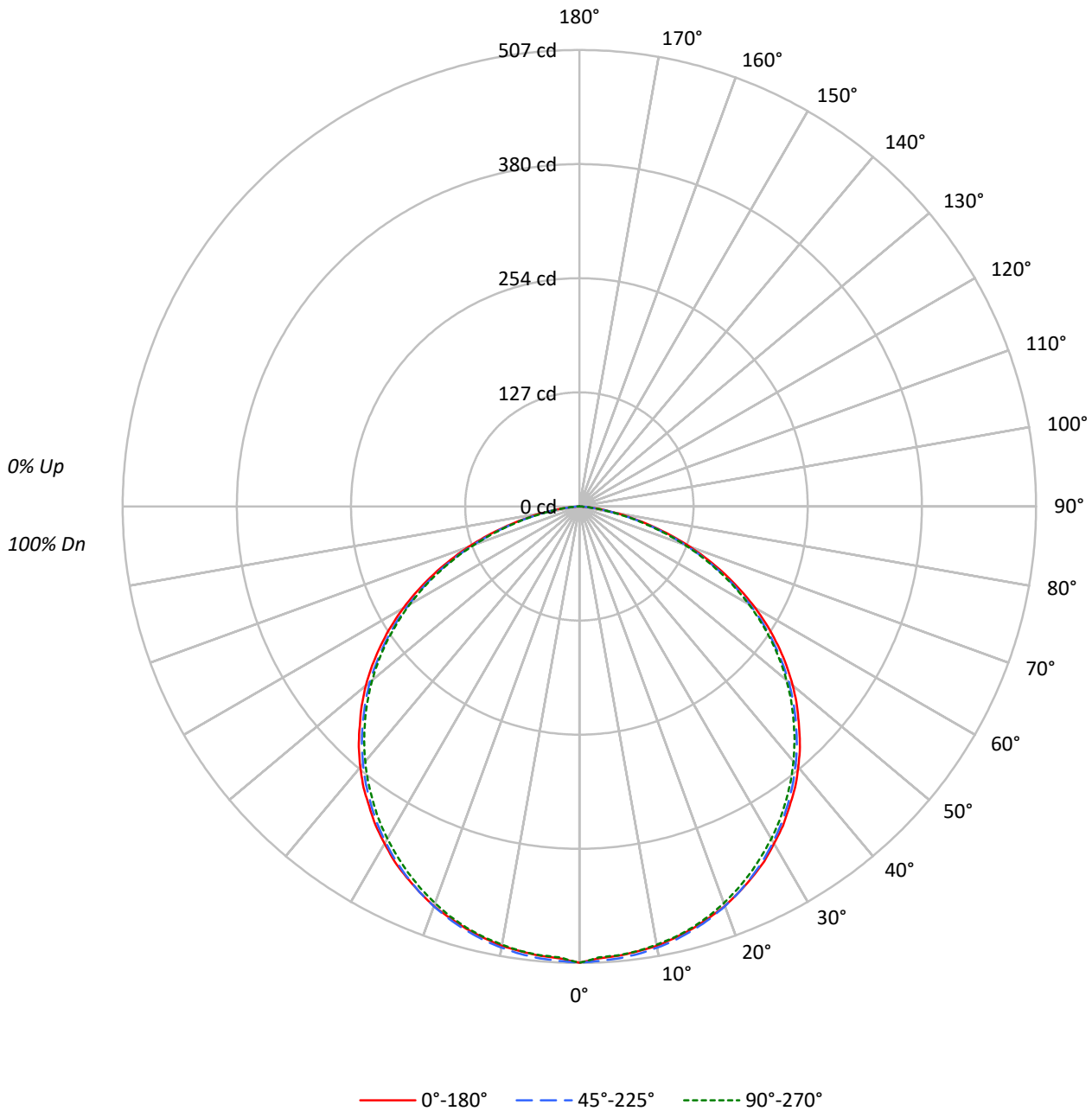
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1418.4 lumens
Efficiency: N/A
Efficacy: 95.8 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: P973174
CATALOG NUMBER: FLR2-14-20HE-L935-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°	1364	1364	1364
5°	1353	1361	1351
10°	1354	1360	1350
15°	1352	1358	1349
20°	1352	1353	1342
25°	1349	1347	1334
30°	1343	1337	1324
35°	1336	1326	1313
40°	1329	1312	1299
45°	1312	1294	1280
50°	1295	1271	1257
55°	1263	1233	1221
60°	1214	1180	1169
65°	1137	1103	1091
70°	1025	983	976
75°	859	815	807
80°	625	581	566
85°	330	290	266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1312 cd/sqm



TEST NUMBER: P973174
 CATALOG NUMBER: FLR2-14-20HE-L935-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.0	3.4
10°-20°	137.8	9.7
20°-30°	209.4	14.8
30°-40°	253.3	17.9
40°-50°	263.3	18.6
50°-60°	235.7	16.6
60°-70°	171.9	12.1
70°-80°	84.7	6.0
80°-90°	14.2	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°	395.3	27.9
0°-40°	648.6	45.7
0°-60°	1147.6	80.9
0°-90°	1418.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1418.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	507	507	507	507	507	
5°	501	506	504	509	500	48
15°	485	490	487	492	484	137
25°	454	457	454	456	449	209
35°	407	408	404	405	400	255
45°	345	344	340	341	336	266
55°	269	267	263	262	260	240
65°	178	176	173	172	171	176
75°	83	81	78	78	78	88
85°	11	10	9	8	9	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	506.8	506.8	506.8	506.8	506.8
2.5°	502.4	508.0	505.3	510.3	501.3
5°	500.9	506.3	503.8	508.7	500.3
7.5°	498.4	504.0	501.3	505.9	498.0
10°	495.6	500.7	497.7	502.4	494.2
12.5°	490.8	495.9	493.1	497.3	489.8
15°	485.4	489.8	487.3	491.5	484.3
17.5°	479.1	483.3	480.5	484.3	477.2
20°	472.2	475.5	472.6	475.7	468.8
22.5°	463.6	466.7	463.6	465.7	459.6
25°	454.3	456.6	453.5	455.6	449.3
27.5°	444.5	445.7	442.6	444.3	437.8
30°	432.3	433.8	430.4	432.5	426.2
32.5°	420.6	421.4	417.6	419.3	413.6
35°	406.7	407.6	403.6	405.2	399.6
37.5°	393.5	393.3	389.1	390.1	385.3
40°	378.2	378.0	373.6	374.4	369.8
42.5°	362.5	361.6	357.4	357.8	353.6
45°	344.8	344.4	340.0	340.6	336.4
47.5°	327.8	326.6	322.2	322.4	318.8
50°	309.4	307.5	303.7	303.3	300.2
52.5°	289.7	287.6	283.4	283.0	280.7
55°	269.1	266.8	262.8	262.2	260.3
57.5°	247.9	245.0	241.8	240.6	239.1
60°	225.5	222.8	219.2	217.9	217.3
62.5°	202.2	199.5	196.7	195.5	194.7
65°	178.5	176.4	173.3	172.0	171.4
67.5°	154.4	152.5	149.6	148.1	147.9
70°	130.3	128.4	125.0	124.2	124.0
72.5°	106.1	104.5	101.3	100.5	100.5
75°	82.6	81.2	78.4	77.6	77.6
77.5°	60.4	59.2	57.1	56.0	56.0
80°	40.3	39.4	37.5	36.7	36.5
82.5°	23.3	22.9	21.2	20.3	20.8
85°	10.7	10.3	9.4	8.4	8.6
87.5°	2.7	2.5	1.9	1.5	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)