

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: P973404

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973404
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: FLR2-14-20-L935-CP375
Description: 1*4 FLR-2.0 2000 LUMEN at 3500 CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

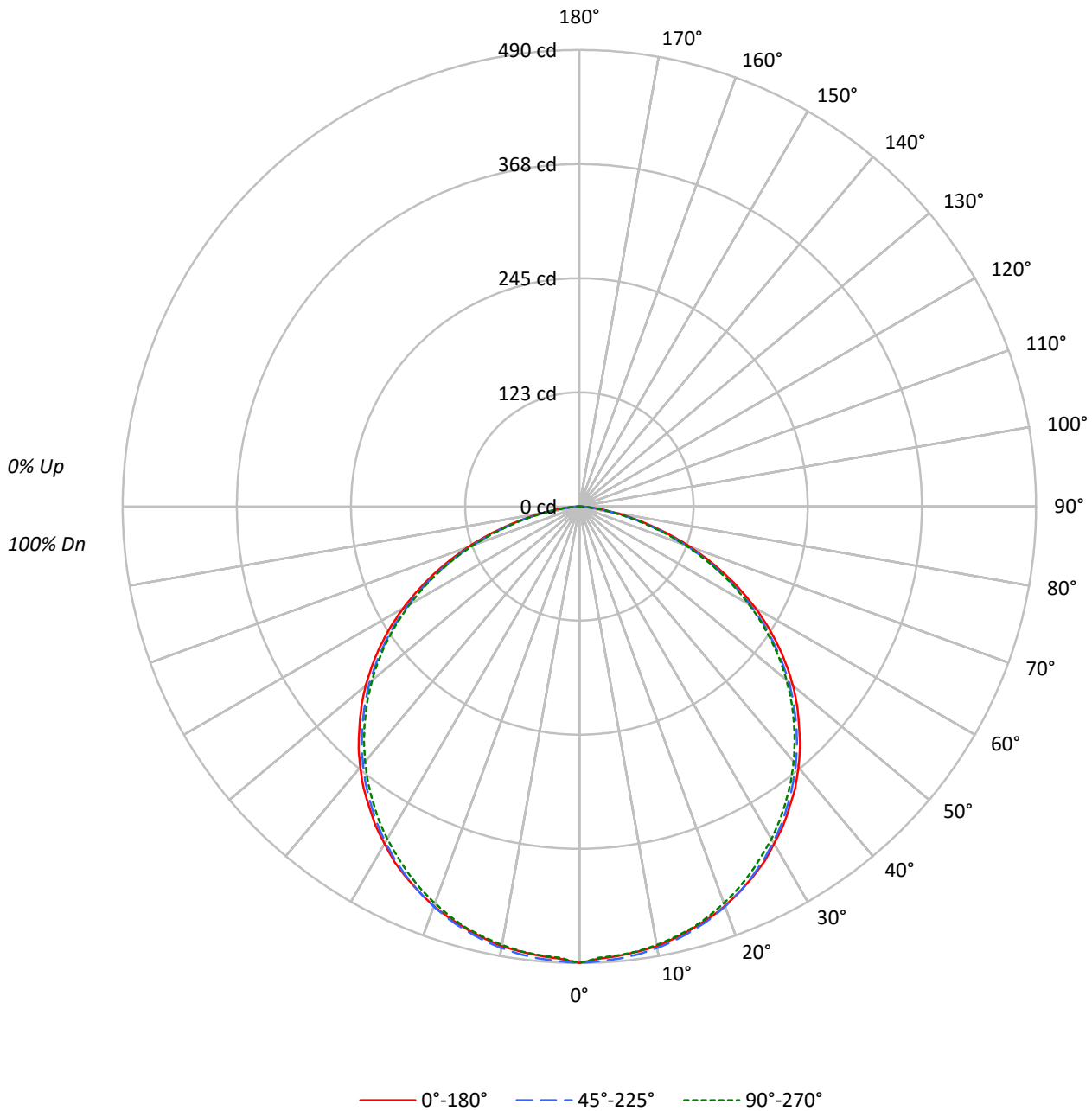
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1371.5 lumens
Efficiency: N/A
Efficacy: 83.6 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): 16.4
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: FLR2-14-20-L935-CP375

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	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°	1319	1319	1319
5°	1308	1316	1307
10°	1310	1315	1306
15°	1307	1313	1305
20°	1308	1309	1298
25°	1304	1302	1290
30°	1299	1293	1281
35°	1292	1282	1269
40°	1285	1269	1256
45°	1269	1251	1238
50°	1253	1230	1215
55°	1221	1192	1181
60°	1173	1141	1131
65°	1099	1067	1055
70°	991	951	943
75°	831	789	780
80°	603	563	547
85°	318	281	256

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1269 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	3.4
10°-20°	133.3	9.7
20°-30°	202.5	14.8
30°-40°	245.0	17.9
40°-50°	254.6	18.6
50°-60°	227.9	16.6
60°-70°	166.3	12.1
70°-80°	81.9	6.0
80°-90°	13.7	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°	382.2	27.9
0°-40°	627.2	45.7
0°-60°	1109.7	80.9
0°-90°	1371.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1371.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	490	490	490	490	490	
5°	484	490	487	492	484	46
15°	469	474	471	475	468	133
25°	439	442	438	440	434	203
35°	393	394	390	392	386	246
45°	333	333	329	329	325	257
55°	260	258	254	254	252	232
65°	173	171	168	166	166	170
75°	80	78	76	75	75	85
85°	10	10	9	8	8	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	490.0	490.0	490.0	490.0	490.0
2.5°	485.8	491.2	488.6	493.5	484.8
5°	484.3	489.6	487.2	491.9	483.7
7.5°	481.9	487.4	484.8	489.2	481.5
10°	479.3	484.1	481.3	485.8	477.9
12.5°	474.6	479.5	476.8	480.9	473.6
15°	469.3	473.6	471.2	475.2	468.3
17.5°	463.3	467.3	464.7	468.3	461.4
20°	456.6	459.8	457.0	460.0	453.3
22.5°	448.2	451.3	448.2	450.3	444.4
25°	439.3	441.6	438.5	440.5	434.5
27.5°	429.8	431.0	428.0	429.6	423.3
30°	418.0	419.4	416.2	418.2	412.1
32.5°	406.7	407.5	403.8	405.4	400.0
35°	393.3	394.1	390.2	391.9	386.4
37.5°	380.5	380.3	376.2	377.3	372.6
40°	365.7	365.5	361.2	362.0	357.6
42.5°	350.5	349.7	345.6	346.0	342.0
45°	333.4	333.0	328.8	329.4	325.3
47.5°	317.0	315.8	311.5	311.7	308.3
50°	299.2	297.3	293.7	293.3	290.2
52.5°	280.1	278.1	274.0	273.6	271.4
55°	260.2	258.0	254.1	253.5	251.7
57.5°	239.7	236.9	233.9	232.6	231.2
60°	218.0	215.4	212.0	210.7	210.1
62.5°	195.5	192.9	190.3	189.0	188.2
65°	172.6	170.6	167.5	166.3	165.7
67.5°	149.3	147.5	144.6	143.2	143.0
70°	126.0	124.1	120.9	120.1	119.9
72.5°	102.6	101.0	98.0	97.2	97.2
75°	79.9	78.5	75.9	75.0	75.0
77.5°	58.4	57.2	55.2	54.2	54.2
80°	38.9	38.1	36.3	35.5	35.3
82.5°	22.5	22.1	20.5	19.7	20.1
85°	10.3	9.9	9.1	8.1	8.3
87.5°	2.6	2.4	1.8	1.4	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)