

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: P973362

Luminaire Tested: FLR2-14-20-L930-CP375

Issue Date: 3/13/2025



Test Information

Test Method: LM-79-2019
Report Number: P973362
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-L930-CP375
Description: 1*4 FLR-2.0 2000 LUMEN at 3000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

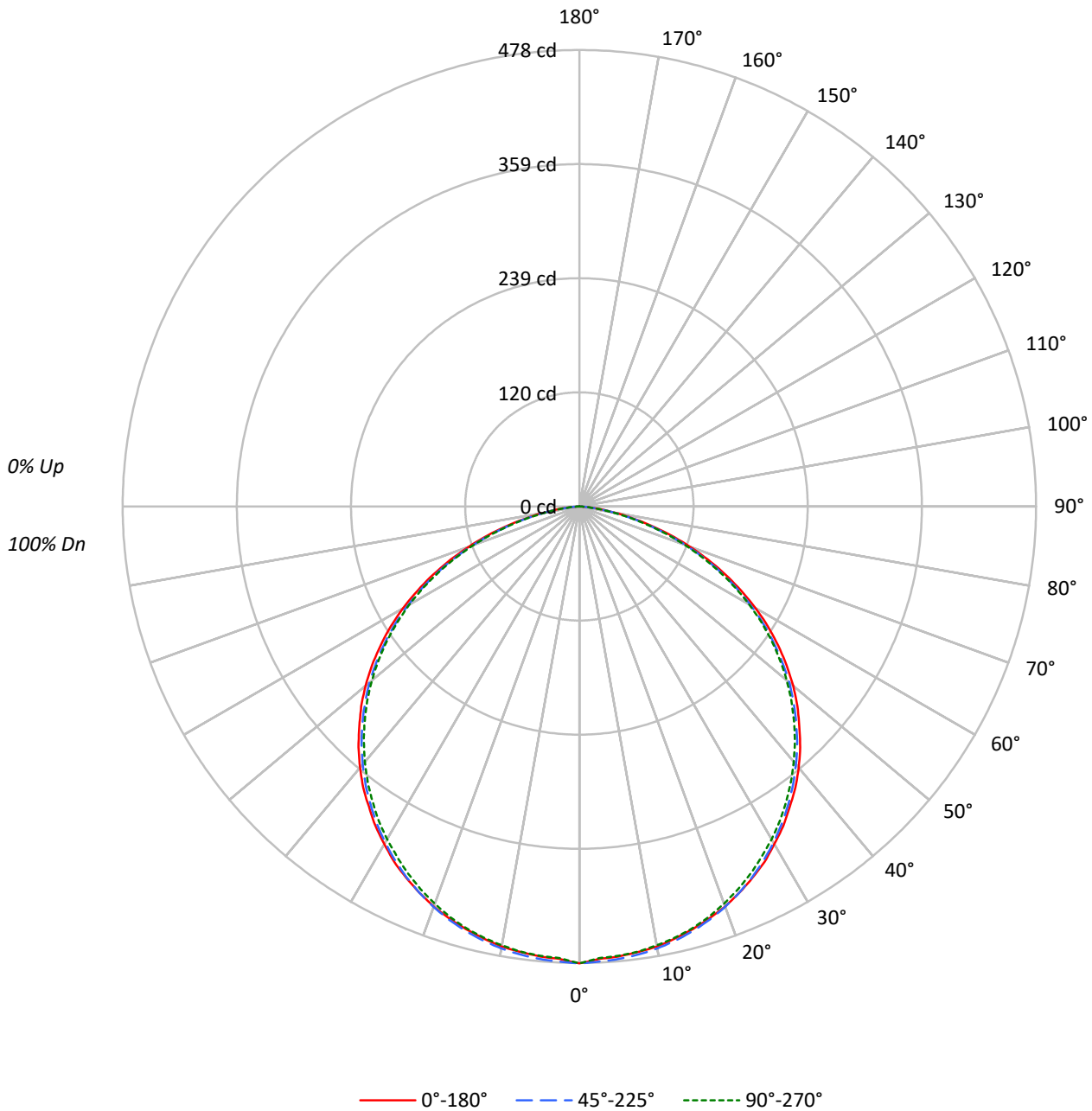
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1339.3 lumens
Efficiency: N/A
Efficacy: 81.7 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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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°	1288	1288	1288
5°	1278	1285	1276
10°	1279	1284	1275
15°	1277	1282	1274
20°	1277	1278	1267
25°	1274	1271	1260
30°	1268	1263	1250
35°	1261	1252	1239
40°	1254	1239	1227
45°	1239	1222	1209
50°	1223	1201	1186
55°	1192	1164	1153
60°	1146	1114	1104
65°	1073	1042	1030
70°	968	928	921
75°	811	770	762
80°	589	550	535
85°	312	275	250

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1239 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.3	3.4
10°-20°	130.2	9.7
20°-30°	197.7	14.8
30°-40°	239.2	17.9
40°-50°	248.6	18.6
50°-60°	222.6	16.6
60°-70°	162.3	12.1
70°-80°	79.9	6.0
80°-90°	13.4	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°	373.2	27.9
0°-40°	612.4	45.7
0°-60°	1083.6	80.9
0°-90°	1339.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1339.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	478	478	478	478	478	
5°	473	478	476	480	472	45
15°	458	462	460	464	457	129
25°	429	431	428	430	424	198
35°	384	385	381	383	377	240
45°	326	325	321	322	318	251
55°	254	252	248	248	246	227
65°	168	167	164	162	162	166
75°	78	77	74	73	73	83
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°	478.5	478.5	478.5	478.5	478.5
2.5°	474.3	479.7	477.1	481.9	473.3
5°	473.0	478.1	475.7	480.3	472.4
7.5°	470.6	475.9	473.3	477.7	470.2
10°	468.0	472.8	470.0	474.3	466.6
12.5°	463.4	468.2	465.6	469.6	462.5
15°	458.3	462.5	460.1	464.0	457.3
17.5°	452.4	456.3	453.7	457.3	450.6
20°	445.8	449.0	446.2	449.2	442.6
22.5°	437.7	440.7	437.7	439.7	433.9
25°	429.0	431.2	428.2	430.2	424.2
27.5°	419.7	420.9	417.9	419.5	413.3
30°	408.2	409.6	406.4	408.4	402.4
32.5°	397.1	397.9	394.3	395.9	390.6
35°	384.0	384.8	381.1	382.6	377.3
37.5°	371.5	371.3	367.4	368.4	363.8
40°	357.1	356.9	352.7	353.5	349.2
42.5°	342.2	341.4	337.5	337.9	333.9
45°	325.6	325.2	321.0	321.6	317.7
47.5°	309.6	308.4	304.2	304.4	301.0
50°	292.1	290.3	286.8	286.4	283.4
52.5°	273.5	271.5	267.6	267.2	265.0
55°	254.1	251.9	248.2	247.6	245.8
57.5°	234.1	231.3	228.4	227.2	225.8
60°	212.9	210.3	207.0	205.8	205.2
62.5°	190.9	188.3	185.8	184.6	183.8
65°	168.5	166.6	163.6	162.4	161.8
67.5°	145.8	144.0	141.2	139.8	139.6
70°	123.0	121.2	118.0	117.2	117.0
72.5°	100.2	98.6	95.7	94.9	94.9
75°	78.0	76.6	74.1	73.3	73.3
77.5°	57.0	55.9	53.9	52.9	52.9
80°	38.0	37.2	35.5	34.7	34.5
82.5°	22.0	21.6	20.0	19.2	19.6
85°	10.1	9.7	8.9	7.9	8.1
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)