

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: P973184

Luminaire Tested: FLR2-14-20HE-L935-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973184
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-CA125
Description: 1*4 FLR-2.0 2000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Arylic (0.125" thickness)

Light Source:
Ballast/Driver: -

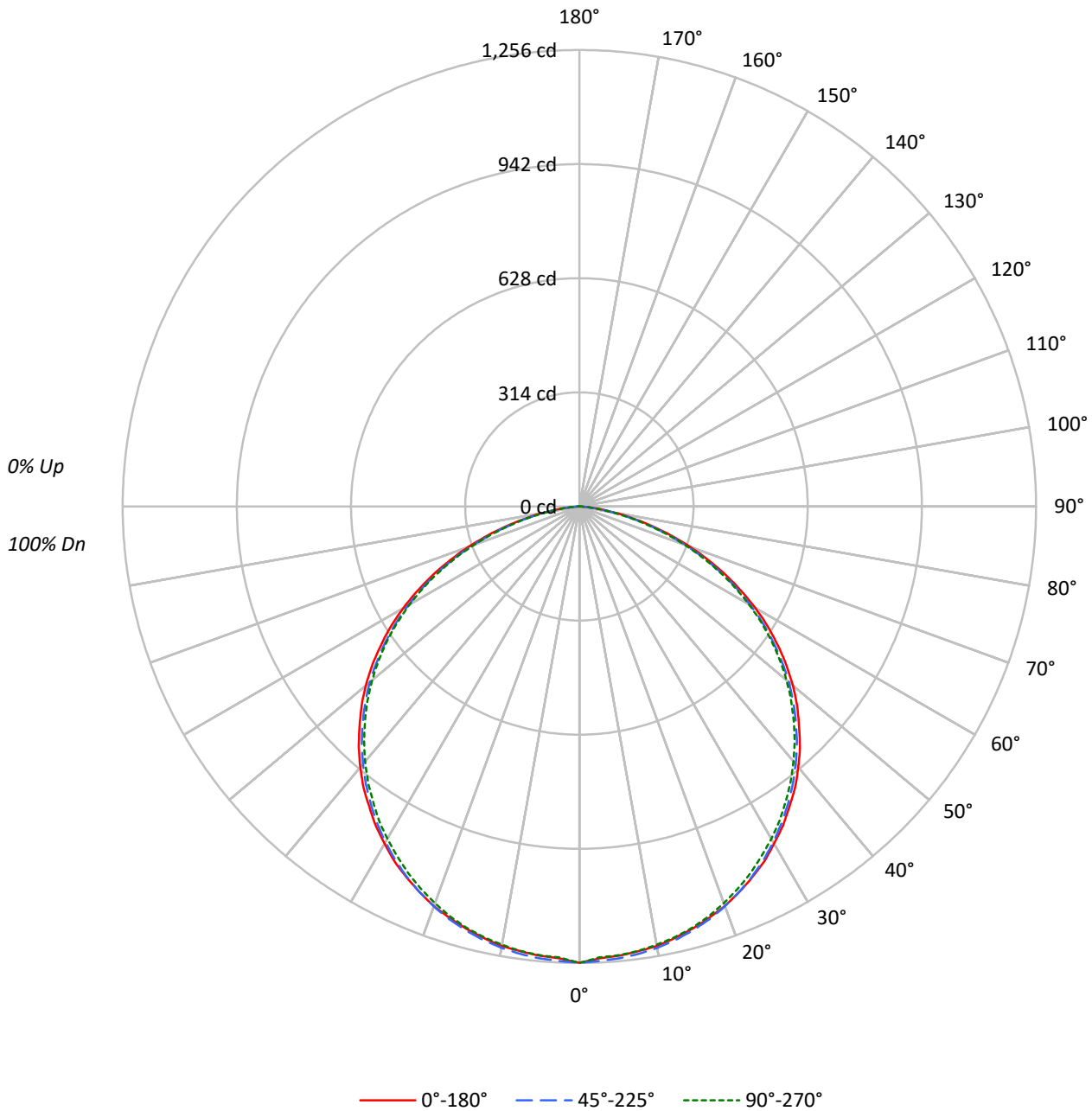
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3514.3 lumens
Efficiency: N/A
Efficacy: 237.5 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: P973184
CATALOG NUMBER: FLR2-14-20HE-L935-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P973184
 CATALOG NUMBER: FLR2-14-20HE-L935-CA125

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°	3379	3379	3379
5°	3353	3372	3348
10°	3356	3370	3346
15°	3350	3363	3343
20°	3350	3353	3326
25°	3342	3336	3305
30°	3328	3314	3281
35°	3310	3285	3252
40°	3292	3251	3218
45°	3252	3206	3172
50°	3209	3150	3113
55°	3128	3055	3026
60°	3007	2923	2898
65°	2816	2734	2704
70°	2539	2437	2416
75°	2129	2021	1999
80°	1547	1441	1401
85°	818	722	658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3252 cd/sqm



TEST NUMBER: P973184
 CATALOG NUMBER: FLR2-14-20HE-L935-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.9	3.4
10°-20°	341.5	9.7
20°-30°	518.9	14.8
30°-40°	627.7	17.9
40°-50°	652.3	18.6
50°-60°	584.1	16.6
60°-70°	426.0	12.1
70°-80°	209.8	6.0
80°-90°	35.1	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°	979.4	27.9
0°-40°	1607.0	45.7
0°-60°	2843.4	80.9
0°-90°	3514.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1241	1255	1248	1260	1240	118
15°	1203	1214	1207	1218	1200	340
25°	1126	1131	1124	1129	1113	519
35°	1008	1010	1000	1004	990	631
45°	854	853	842	844	834	660
55°	667	661	651	650	645	595
65°	442	437	429	426	425	437
75°	205	201	194	192	192	218
85°	26	26	23	21	21	38
90°	0	0	0	0	0	



TEST NUMBER: P973184
 CATALOG NUMBER: FLR2-14-20HE-L935-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1255.6	1255.6	1255.6	1255.6	1255.6
2.5°	1244.7	1258.7	1252.0	1264.4	1242.1
5°	1241.1	1254.6	1248.3	1260.3	1239.5
7.5°	1234.8	1248.9	1242.1	1253.5	1233.8
10°	1228.1	1240.5	1233.3	1244.7	1224.4
12.5°	1216.1	1228.6	1221.8	1232.2	1213.5
15°	1202.6	1213.5	1207.3	1217.7	1200.0
17.5°	1187.0	1197.4	1190.6	1200.0	1182.3
20°	1169.9	1178.2	1170.9	1178.7	1161.5
22.5°	1148.5	1156.3	1148.5	1153.7	1138.7
25°	1125.7	1131.4	1123.6	1128.8	1113.2
27.5°	1101.3	1104.4	1096.6	1100.7	1084.6
30°	1071.1	1074.8	1066.4	1071.6	1056.0
32.5°	1042.0	1044.1	1034.7	1038.9	1024.9
35°	1007.7	1009.8	999.9	1004.1	990.0
37.5°	975.0	974.4	964.1	966.7	954.7
40°	937.0	936.5	925.6	927.7	916.2
42.5°	898.1	896.0	885.6	886.6	876.2
45°	854.4	853.4	842.4	844.0	833.6
47.5°	812.3	809.2	798.3	798.8	790.0
50°	766.6	761.9	752.5	751.5	743.7
52.5°	717.7	712.5	702.1	701.1	695.4
55°	666.8	661.1	651.2	649.6	645.0
57.5°	614.3	607.0	599.2	596.1	592.5
60°	558.7	551.9	543.1	540.0	538.4
62.5°	501.0	494.2	487.5	484.4	482.3
65°	442.3	437.1	429.3	426.2	424.6
67.5°	382.5	377.8	370.5	366.9	366.4
70°	322.7	318.1	309.7	307.7	307.1
72.5°	263.0	258.8	251.0	248.9	248.9
75°	204.8	201.1	194.4	192.3	192.3
77.5°	149.7	146.6	141.4	138.8	138.8
80°	99.8	97.7	93.0	90.9	90.4
82.5°	57.7	56.6	52.5	50.4	51.5
85°	26.5	25.5	23.4	20.8	21.3
87.5°	6.8	6.2	4.7	3.6	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)