

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: P973367

Luminaire Tested: FLR2-14-42-L930-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973367
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: FLR2-14-42-L930-CA080
Description: 1*4 FLR-2.0 4200 LUMEN at 3000CCT & 90CRI with Clear Acrylic (0.080" thickness)

Light Source:
Ballast/Driver: -

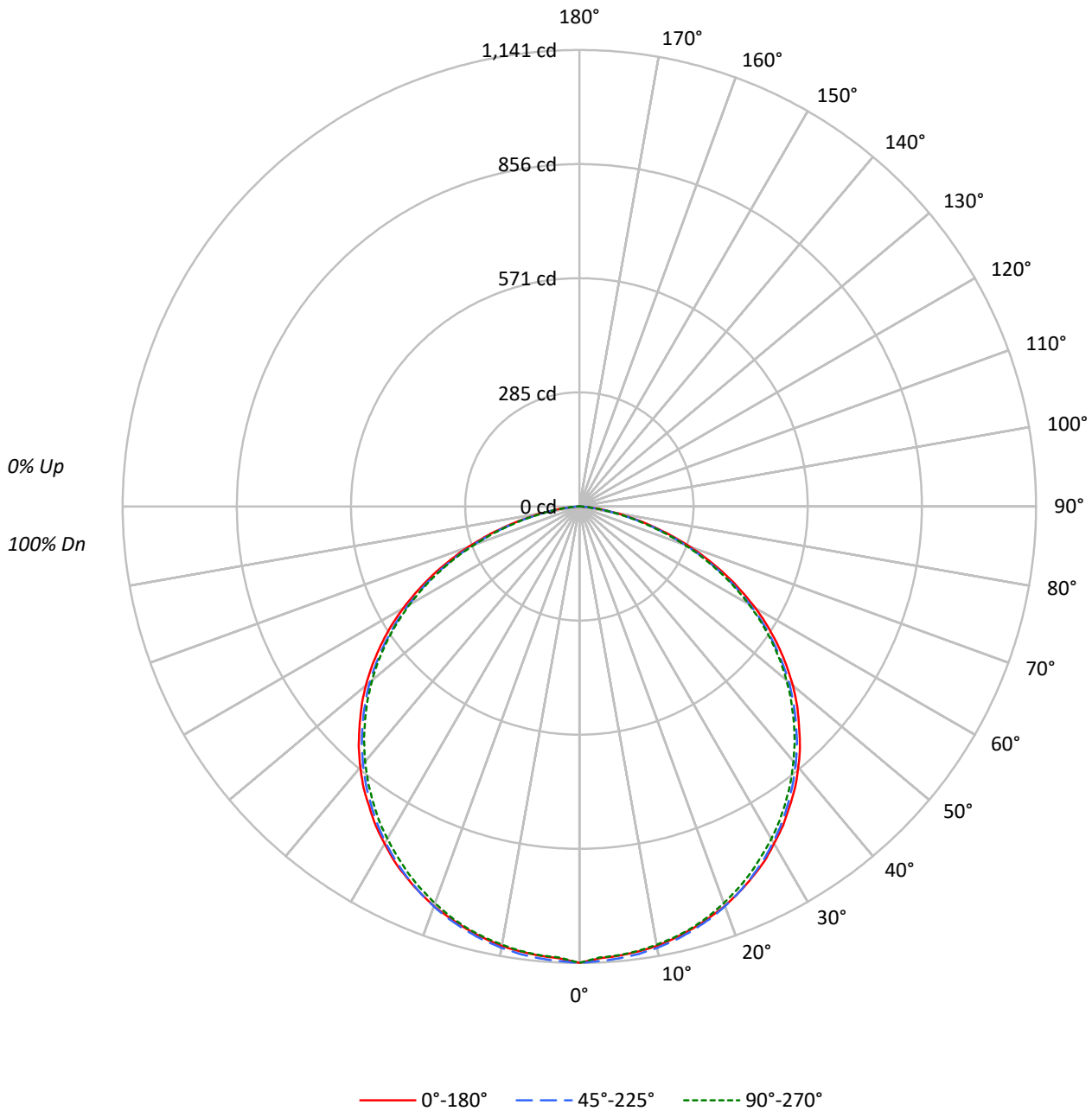
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3192.8 lumens
Efficiency: N/A
Efficacy: 100.7 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): 31.7
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°	3070	3070	3070
5°	3046	3063	3042
10°	3049	3061	3040
15°	3044	3056	3037
20°	3044	3046	3022
25°	3037	3031	3003
30°	3024	3011	2981
35°	3007	2984	2955
40°	2990	2954	2924
45°	2954	2913	2882
50°	2915	2862	2829
55°	2842	2776	2749
60°	2732	2655	2633
65°	2558	2483	2457
70°	2307	2214	2195
75°	1934	1836	1816
80°	1406	1309	1274
85°	744	655	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2954 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	3.4
10°-20°	310.3	9.7
20°-30°	471.4	14.8
30°-40°	570.2	17.9
40°-50°	592.7	18.6
50°-60°	530.6	16.6
60°-70°	387.0	12.1
70°-80°	190.6	6.0
80°-90°	31.9	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°	889.8	27.9
0°-40°	1460.0	45.7
0°-60°	2583.3	80.9
0°-90°	3192.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3192.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1128	1140	1134	1145	1126	107
15°	1093	1102	1097	1106	1090	309
25°	1023	1028	1021	1026	1011	471
35°	916	917	908	912	900	573
45°	776	775	765	767	757	599
55°	606	601	592	590	586	541
65°	402	397	390	387	386	397
75°	186	183	177	175	175	198
85°	24	23	21	19	19	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.7	1140.7	1140.7	1140.7	1140.7
2.5°	1130.8	1143.6	1137.4	1148.8	1128.5
5°	1127.5	1139.8	1134.1	1145.0	1126.1
7.5°	1121.9	1134.6	1128.5	1138.9	1120.9
10°	1115.7	1127.0	1120.4	1130.8	1112.4
12.5°	1104.9	1116.2	1110.1	1119.5	1102.5
15°	1092.6	1102.5	1096.8	1106.3	1090.2
17.5°	1078.4	1087.9	1081.7	1090.2	1074.2
20°	1062.8	1070.4	1063.8	1070.9	1055.3
22.5°	1043.5	1050.6	1043.5	1048.2	1034.5
25°	1022.7	1027.9	1020.8	1025.5	1011.4
27.5°	1000.5	1003.3	996.3	1000.0	985.4
30°	973.1	976.4	968.9	973.6	959.4
32.5°	946.7	948.6	940.1	943.9	931.1
35°	915.5	917.4	908.4	912.2	899.5
37.5°	885.8	885.3	875.9	878.2	867.4
40°	851.3	850.8	840.9	842.8	832.4
42.5°	815.9	814.0	804.6	805.5	796.1
45°	776.2	775.3	765.4	766.8	757.3
47.5°	738.0	735.2	725.2	725.7	717.7
50°	696.4	692.2	683.7	682.7	675.7
52.5°	652.1	647.3	637.9	636.9	631.8
55°	605.8	600.6	591.6	590.2	586.0
57.5°	558.1	551.5	544.4	541.6	538.3
60°	507.6	501.4	493.4	490.6	489.2
62.5°	455.2	449.0	442.9	440.1	438.2
65°	401.8	397.1	390.0	387.2	385.8
67.5°	347.5	343.3	336.7	333.3	332.9
70°	293.2	289.0	281.4	279.5	279.0
72.5°	238.9	235.1	228.1	226.2	226.2
75°	186.0	182.7	176.6	174.7	174.7
77.5°	136.0	133.1	128.4	126.1	126.1
80°	90.7	88.8	84.5	82.6	82.2
82.5°	52.4	51.5	47.7	45.8	46.7
85°	24.1	23.1	21.2	18.9	19.4
87.5°	6.1	5.7	4.2	3.3	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)