

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: P973311

Luminaire Tested: FLR2-14-42HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973311
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: FLR2-14-42HE-L950-CP250
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

Summary

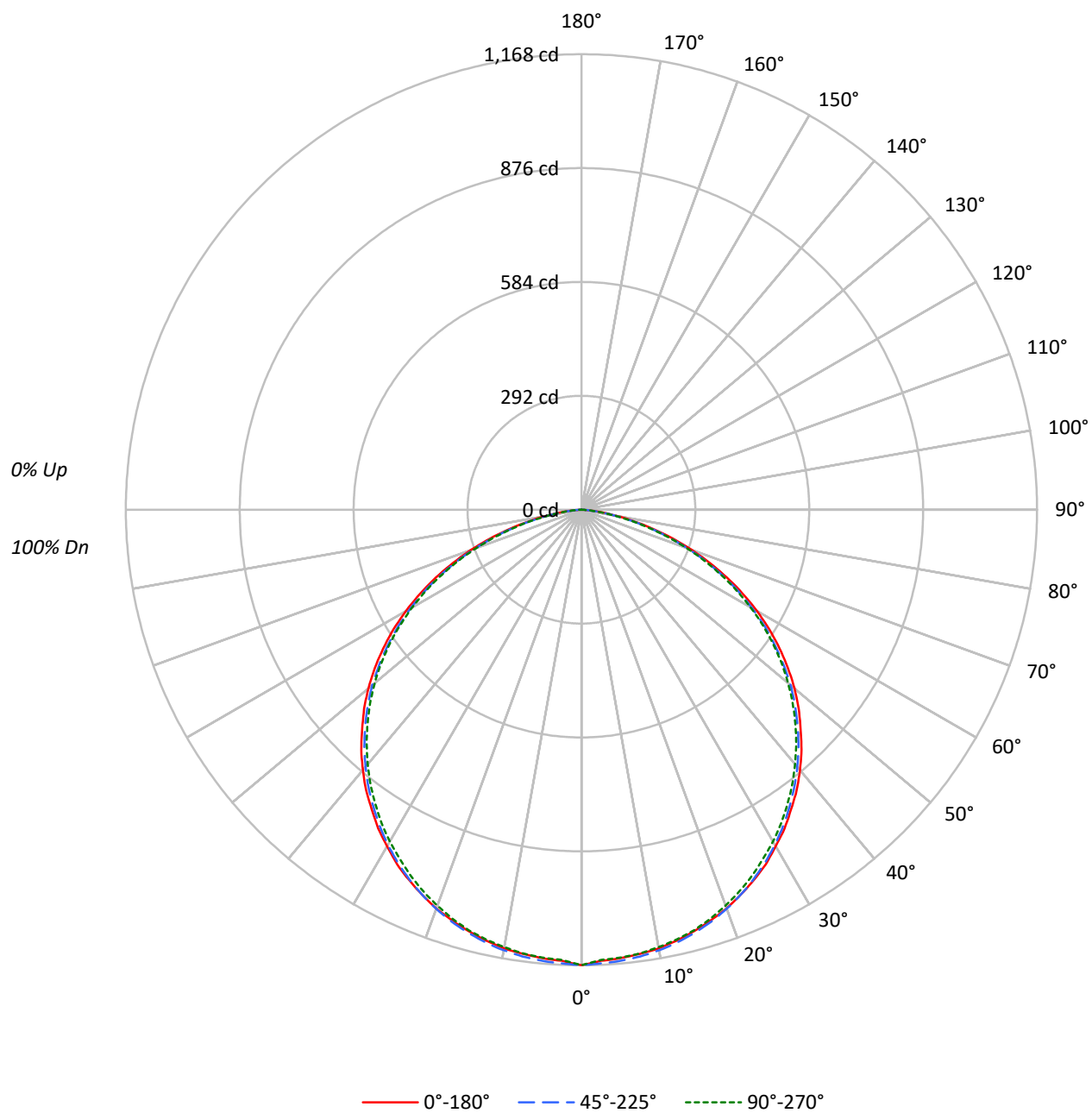
Lumens per Lamp: N/A
Luminaire Lumens: 3268.8 lumens
Efficiency: N/A
Efficacy: 102.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 31.9
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					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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°	3143	3143	3143
5°	3118	3136	3114
10°	3121	3134	3112
15°	3116	3128	3110
20°	3116	3119	3094
25°	3109	3103	3074
30°	3096	3082	3052
35°	3079	3055	3025
40°	3062	3024	2994
45°	3024	2982	2951
50°	2985	2930	2896
55°	2910	2842	2814
60°	2797	2719	2695
65°	2620	2543	2514
70°	2362	2267	2248
75°	1981	1880	1860
80°	1438	1340	1303
85°	763	673	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3024 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	3.4
10°-20°	317.7	9.7
20°-30°	482.6	14.8
30°-40°	583.8	17.9
40°-50°	606.8	18.6
50°-60°	543.3	16.6
60°-70°	396.2	12.1
70°-80°	195.1	6.0
80°-90°	32.6	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°	910.9	27.9
0°-40°	1494.8	45.7
0°-60°	2644.8	80.9
0°-90°	3268.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3268.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1154	1167	1161	1172	1153	110
15°	1119	1129	1123	1133	1116	316
25°	1047	1052	1045	1050	1035	483
35°	937	939	930	934	921	587
45°	795	794	784	785	775	614
55°	620	615	606	604	600	554
65°	411	406	399	396	395	406
75°	190	187	181	179	179	203
85°	25	24	22	19	20	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1167.9	1167.9	1167.9	1167.9	1167.9
2.5°	1157.7	1170.8	1164.5	1176.1	1155.3
5°	1154.4	1166.9	1161.1	1172.2	1152.9
7.5°	1148.6	1161.6	1155.3	1166.0	1147.6
10°	1142.3	1153.9	1147.1	1157.7	1138.9
12.5°	1131.2	1142.8	1136.5	1146.1	1128.7
15°	1118.6	1128.7	1122.9	1132.6	1116.2
17.5°	1104.1	1113.8	1107.5	1116.2	1099.7
20°	1088.1	1095.9	1089.1	1096.3	1080.4
22.5°	1068.3	1075.6	1068.3	1073.1	1059.1
25°	1047.0	1052.4	1045.1	1049.9	1035.4
27.5°	1024.3	1027.2	1020.0	1023.8	1008.9
30°	996.3	999.7	991.9	996.8	982.3
32.5°	969.2	971.1	962.4	966.3	953.3
35°	937.3	939.2	930.1	933.9	920.9
37.5°	906.9	906.4	896.7	899.1	888.0
40°	871.6	871.1	860.9	862.9	852.2
42.5°	835.3	833.4	823.7	824.7	815.0
45°	794.7	793.7	783.6	785.0	775.4
47.5°	755.6	752.7	742.5	743.0	734.8
50°	713.0	708.7	700.0	699.0	691.7
52.5°	667.6	662.7	653.1	652.1	646.8
55°	620.2	614.9	605.7	604.2	599.9
57.5°	571.4	564.6	557.4	554.5	551.1
60°	519.7	513.4	505.2	502.3	500.8
62.5°	466.0	459.7	453.4	450.5	448.6
65°	411.4	406.5	399.3	396.4	394.9
67.5°	355.8	351.4	344.7	341.3	340.8
70°	300.2	295.8	288.1	286.2	285.7
72.5°	244.6	240.7	233.5	231.5	231.5
75°	190.5	187.1	180.8	178.9	178.9
77.5°	139.2	136.3	131.5	129.1	129.1
80°	92.8	90.9	86.5	84.6	84.1
82.5°	53.7	52.7	48.8	46.9	47.9
85°	24.7	23.7	21.8	19.3	19.8
87.5°	6.3	5.8	4.4	3.4	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)