

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: P973176

Luminaire Tested: FLR2-14-42HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973176
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-L935-CP375
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

Summary

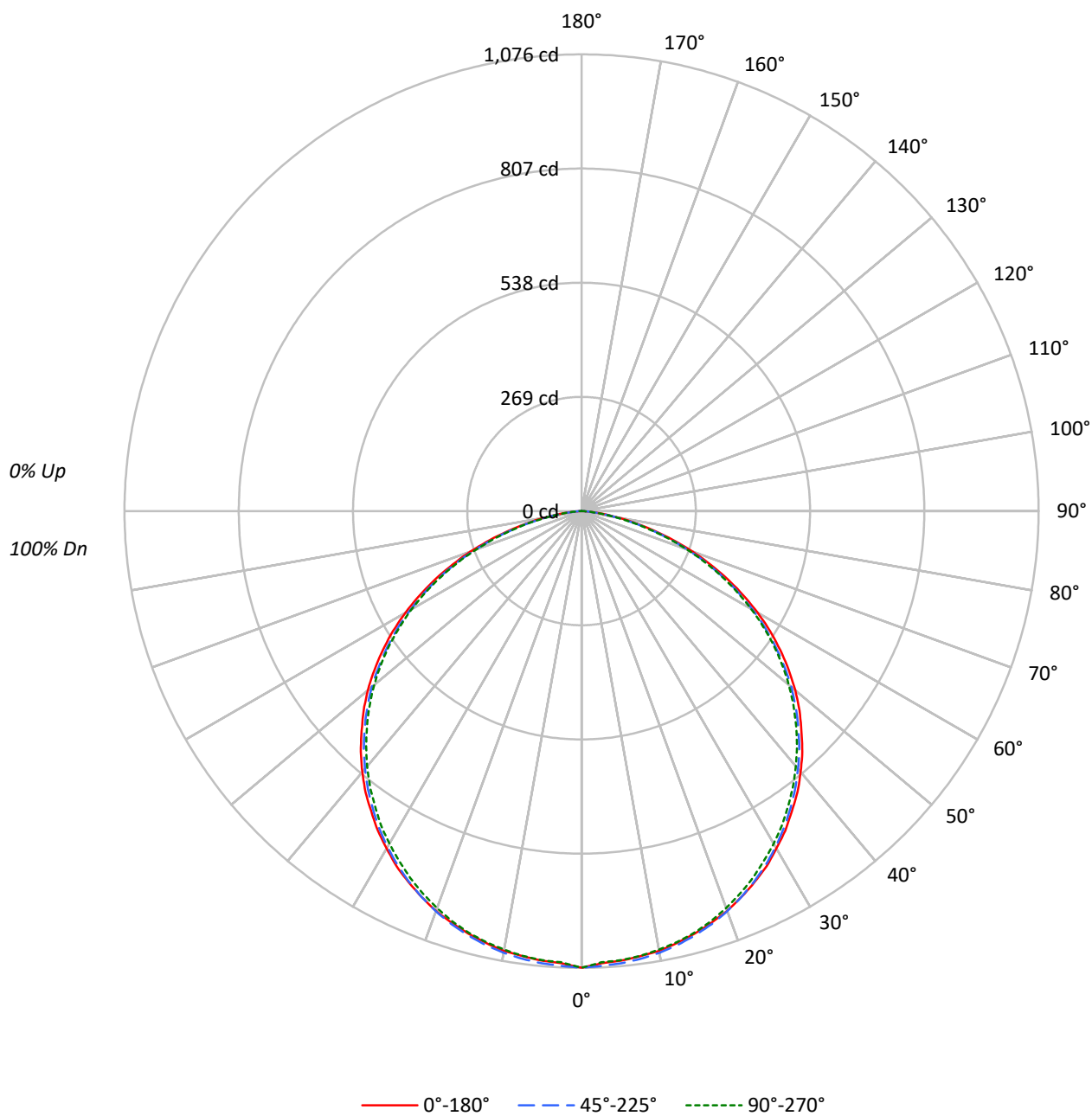
Lumens per Lamp: N/A
Luminaire Lumens: 3010.5 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	2894	2894	2894
5°	2872	2889	2868
10°	2875	2887	2866
15°	2870	2881	2864
20°	2870	2873	2849
25°	2863	2858	2831
30°	2851	2839	2811
35°	2836	2814	2786
40°	2820	2785	2757
45°	2785	2747	2718
50°	2749	2699	2667
55°	2680	2617	2592
60°	2576	2504	2482
65°	2413	2341	2316
70°	2175	2087	2070
75°	1824	1731	1712
80°	1325	1235	1201
85°	701	618	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2785 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	3.4
10°-20°	292.6	9.7
20°-30°	444.5	14.8
30°-40°	537.7	17.9
40°-50°	558.8	18.6
50°-60°	500.3	16.6
60°-70°	364.9	12.1
70°-80°	179.7	6.0
80°-90°	30.0	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°	839.0	27.9
0°-40°	1376.7	45.7
0°-60°	2435.8	80.9
0°-90°	3010.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3010.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1076	1076	1076	1076	1076	
5°	1063	1075	1069	1080	1062	101
15°	1030	1040	1034	1043	1028	291
25°	964	969	962	967	954	445
35°	863	865	857	860	848	541
45°	732	731	722	723	714	565
55°	571	566	558	556	552	510
65°	379	374	368	365	364	374
75°	175	172	166	165	165	187
85°	23	22	20	18	18	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1075.6	1075.6	1075.6	1075.6	1075.6
2.5°	1066.3	1078.3	1072.5	1083.2	1064.1
5°	1063.2	1074.7	1069.4	1079.6	1061.8
7.5°	1057.8	1069.8	1064.1	1073.8	1056.9
10°	1052.0	1062.7	1056.5	1066.3	1048.9
12.5°	1041.8	1052.5	1046.7	1055.6	1039.6
15°	1030.2	1039.6	1034.2	1043.1	1028.0
17.5°	1016.9	1025.8	1020.0	1028.0	1012.9
20°	1002.2	1009.3	1003.1	1009.7	995.0
22.5°	983.9	990.6	983.9	988.4	975.5
25°	964.3	969.2	962.5	967.0	953.6
27.5°	943.4	946.1	939.4	943.0	929.2
30°	917.6	920.7	913.6	918.0	904.7
32.5°	892.6	894.4	886.4	890.0	878.0
35°	863.3	865.0	856.6	860.1	848.1
37.5°	835.2	834.8	825.9	828.1	817.9
40°	802.7	802.3	792.9	794.7	784.9
42.5°	769.3	767.5	758.6	759.5	750.6
45°	731.9	731.0	721.7	723.0	714.1
47.5°	695.9	693.2	683.8	684.3	676.7
50°	656.7	652.7	644.7	643.8	637.1
52.5°	614.8	610.4	601.5	600.6	595.7
55°	571.2	566.3	557.8	556.5	552.5
57.5°	526.2	520.0	513.3	510.7	507.5
60°	478.6	472.8	465.2	462.6	461.2
62.5°	429.2	423.4	417.6	414.9	413.2
65°	378.9	374.4	367.7	365.1	363.7
67.5°	327.7	323.7	317.4	314.3	313.9
70°	276.5	272.5	265.3	263.6	263.1
72.5°	225.3	221.7	215.0	213.3	213.3
75°	175.4	172.3	166.5	164.7	164.7
77.5°	128.2	125.5	121.1	118.9	118.9
80°	85.5	83.7	79.7	77.9	77.5
82.5°	49.4	48.5	45.0	43.2	44.1
85°	22.7	21.8	20.0	17.8	18.3
87.5°	5.8	5.3	4.0	3.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)