

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: P973281

Luminaire Tested: FLR2-14-42HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973281
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-L850-CP375
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

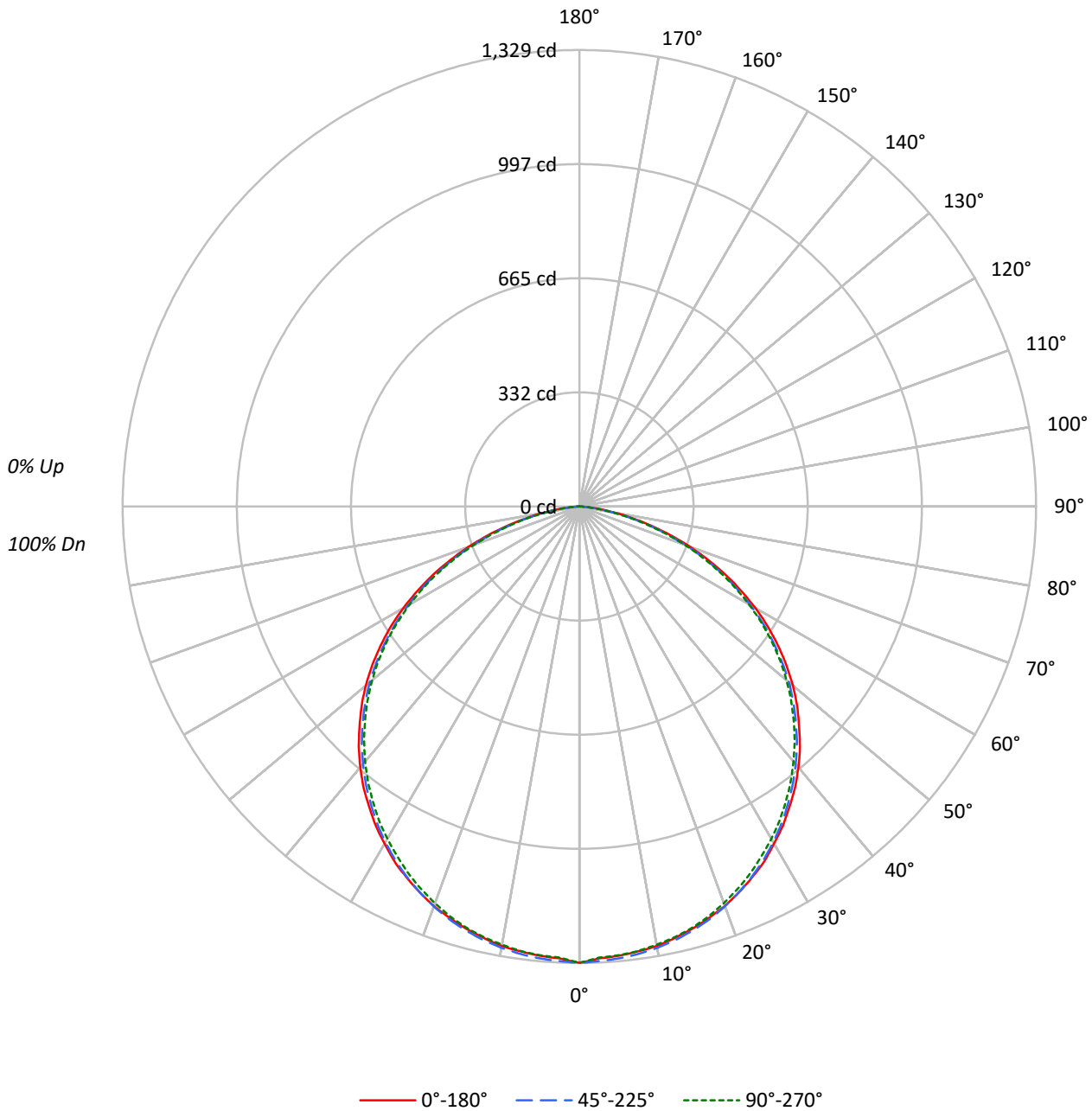
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3718.9 lumens
Efficiency: N/A
Efficacy: 116.6 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										
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°	3576	3576	3576
5°	3548	3568	3543
10°	3551	3566	3540
15°	3545	3559	3538
20°	3545	3548	3520
25°	3537	3530	3498
30°	3522	3507	3472
35°	3503	3476	3442
40°	3483	3441	3406
45°	3441	3393	3357
50°	3396	3334	3295
55°	3310	3233	3202
60°	3182	3093	3067
65°	2980	2893	2861
70°	2687	2579	2557
75°	2253	2139	2116
80°	1636	1525	1483
85°	865	763	695

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3441 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.9	3.4
10°-20°	361.4	9.7
20°-30°	549.1	14.8
30°-40°	664.2	17.9
40°-50°	690.3	18.6
50°-60°	618.1	16.6
60°-70°	450.8	12.1
70°-80°	222.0	6.0
80°-90°	37.1	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°	1036.4	27.9
0°-40°	1700.6	45.7
0°-60°	3009.0	80.9
0°-90°	3718.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3718.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1313	1328	1321	1334	1312	125
15°	1273	1284	1278	1289	1270	359
25°	1191	1197	1189	1194	1178	549
35°	1066	1069	1058	1062	1048	668
45°	904	903	892	893	882	698
55°	706	700	689	688	682	630
65°	468	462	454	451	449	462
75°	217	213	206	204	204	231
85°	28	27	25	22	22	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1328.7	1328.7	1328.7	1328.7	1328.7
2.5°	1317.2	1332.0	1324.9	1338.1	1314.4
5°	1313.3	1327.6	1321.0	1333.7	1311.7
7.5°	1306.7	1321.6	1314.4	1326.5	1305.6
10°	1299.6	1312.8	1305.1	1317.2	1295.7
12.5°	1286.9	1300.1	1293.0	1304.0	1284.2
15°	1272.6	1284.2	1277.6	1288.6	1269.9
17.5°	1256.1	1267.1	1260.0	1269.9	1251.2
20°	1238.0	1246.8	1239.1	1247.3	1229.2
22.5°	1215.4	1223.7	1215.4	1220.9	1205.0
25°	1191.2	1197.3	1189.0	1194.5	1178.0
27.5°	1165.4	1168.7	1160.4	1164.8	1147.8
30°	1133.5	1137.3	1128.5	1134.0	1117.5
32.5°	1102.7	1104.9	1095.0	1099.4	1084.5
35°	1066.4	1068.6	1058.1	1062.5	1047.7
37.5°	1031.7	1031.2	1020.2	1022.9	1010.3
40°	991.6	991.0	979.5	981.7	969.6
42.5°	950.3	948.1	937.1	938.2	927.2
45°	904.1	903.0	891.5	893.1	882.1
47.5°	859.6	856.3	844.7	845.3	835.9
50°	811.2	806.3	796.4	795.3	787.0
52.5°	759.5	754.0	743.0	741.9	735.9
55°	705.6	699.6	689.1	687.5	682.5
57.5°	650.1	642.4	634.1	630.8	627.0
60°	591.2	584.1	574.7	571.4	569.8
62.5°	530.2	523.0	515.9	512.6	510.4
65°	468.0	462.5	454.3	451.0	449.3
67.5°	404.8	399.8	392.1	388.3	387.7
70°	341.5	336.6	327.8	325.6	325.0
72.5°	278.3	273.9	265.6	263.4	263.4
75°	216.7	212.8	205.7	203.5	203.5
77.5°	158.4	155.1	149.6	146.8	146.8
80°	105.6	103.4	98.4	96.2	95.7
82.5°	61.0	59.9	55.5	53.3	54.4
85°	28.0	26.9	24.7	22.0	22.5
87.5°	7.1	6.6	4.9	3.8	4.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)