

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: P973196

Luminaire Tested: FLR2-14-42HE-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973196
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-L840-CP125
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 4000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

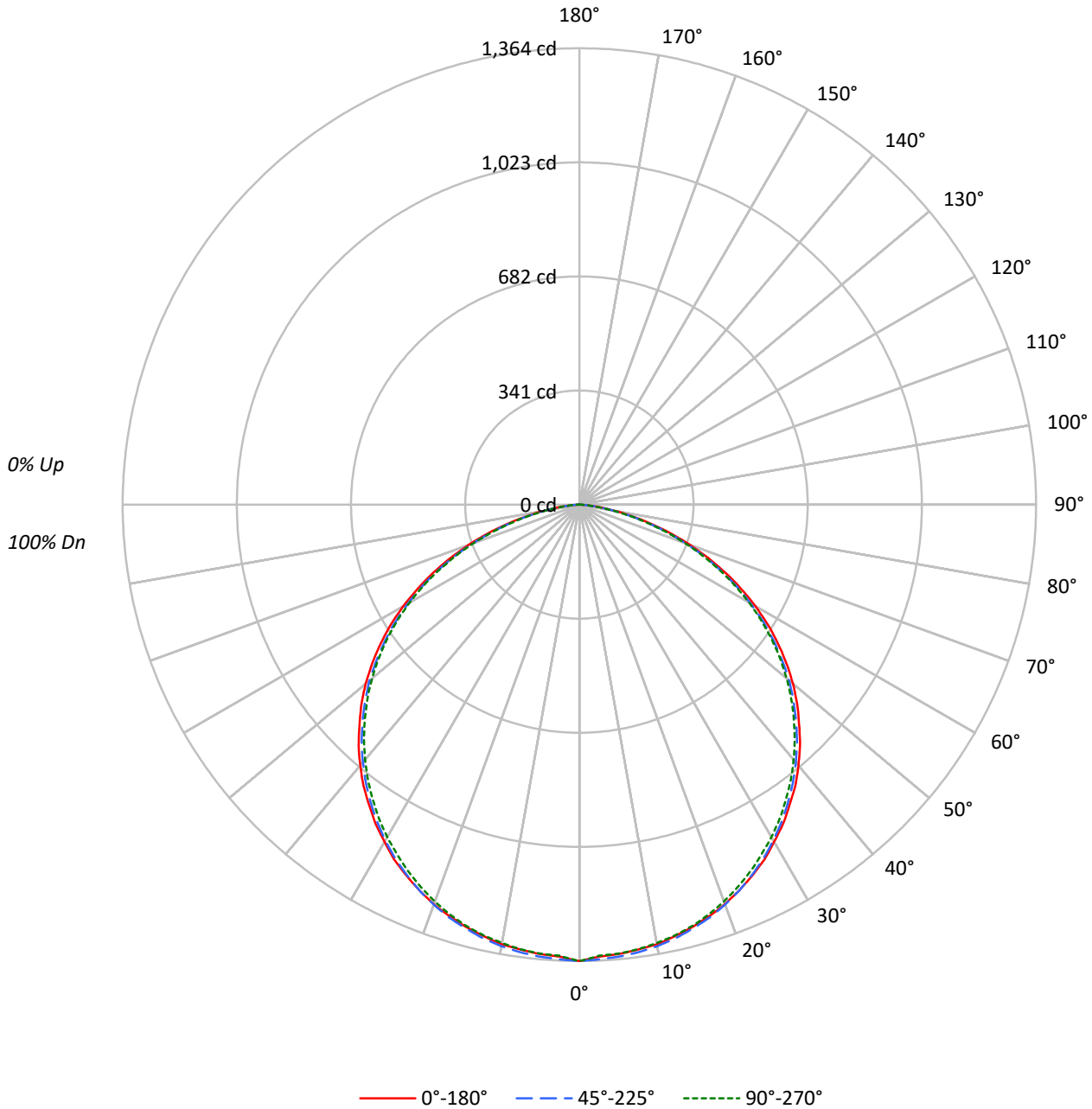
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3818.5 lumens
Efficiency: N/A
Efficacy: 119.7 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): 31.9
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				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°	3671	3671	3671
5°	3643	3664	3638
10°	3646	3662	3635
15°	3640	3655	3633
20°	3640	3643	3614
25°	3632	3625	3592
30°	3616	3601	3566
35°	3597	3569	3534
40°	3576	3533	3497
45°	3533	3484	3447
50°	3487	3423	3383
55°	3399	3320	3288
60°	3267	3176	3148
65°	3060	2970	2938
70°	2759	2648	2626
75°	2313	2196	2172
80°	1680	1567	1523
85°	889	784	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3533 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.4
10°-20°	371.1	9.7
20°-30°	563.8	14.8
30°-40°	682.0	17.9
40°-50°	708.8	18.6
50°-60°	634.6	16.6
60°-70°	462.9	12.1
70°-80°	227.9	6.0
80°-90°	38.1	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°	1064.1	27.9
0°-40°	1746.1	45.7
0°-60°	3089.6	80.9
0°-90°	3818.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3818.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1348	1363	1356	1369	1347	128
15°	1307	1319	1312	1323	1304	369
25°	1223	1229	1221	1226	1210	564
35°	1095	1097	1086	1091	1076	686
45°	928	927	915	917	906	717
55°	724	718	708	706	701	647
65°	481	475	466	463	461	475
75°	222	218	211	209	209	237
85°	29	28	25	23	23	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1364.3	1364.3	1364.3	1364.3	1364.3
2.5°	1352.4	1367.7	1360.4	1373.9	1349.6
5°	1348.5	1363.2	1356.4	1369.4	1346.8
7.5°	1341.7	1357.0	1349.6	1362.0	1340.6
10°	1334.4	1347.9	1340.0	1352.4	1330.4
12.5°	1321.4	1334.9	1327.6	1338.9	1318.6
15°	1306.7	1318.6	1311.8	1323.1	1303.9
17.5°	1289.8	1301.1	1293.7	1303.9	1284.7
20°	1271.1	1280.2	1272.3	1280.7	1262.1
22.5°	1248.0	1256.4	1248.0	1253.6	1237.2
25°	1223.1	1229.3	1220.9	1226.5	1209.6
27.5°	1196.6	1200.0	1191.5	1196.0	1178.5
30°	1163.8	1167.8	1158.8	1164.4	1147.5
32.5°	1132.2	1134.5	1124.3	1128.8	1113.6
35°	1094.9	1097.2	1086.5	1091.0	1075.7
37.5°	1059.4	1058.8	1047.5	1050.3	1037.3
40°	1018.1	1017.6	1005.7	1008.0	995.6
42.5°	975.8	973.5	962.2	963.4	952.1
45°	928.4	927.2	915.4	917.1	905.8
47.5°	882.6	879.2	867.4	867.9	858.3
50°	832.9	827.8	817.7	816.5	808.1
52.5°	779.8	774.2	762.9	761.8	755.6
55°	724.5	718.3	707.6	705.9	700.8
57.5°	667.5	659.6	651.1	647.7	643.8
60°	607.0	599.7	590.1	586.7	585.0
62.5°	544.4	537.0	529.7	526.3	524.0
65°	480.6	474.9	466.4	463.1	461.4
67.5°	415.6	410.5	402.6	398.7	398.1
70°	350.7	345.6	336.6	334.3	333.7
72.5°	285.7	281.2	272.7	270.5	270.5
75°	222.5	218.5	211.2	208.9	208.9
77.5°	162.6	159.2	153.6	150.8	150.8
80°	108.4	106.2	101.1	98.8	98.3
82.5°	62.7	61.6	57.0	54.8	55.9
85°	28.8	27.7	25.4	22.6	23.2
87.5°	7.3	6.8	5.1	4.0	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)