

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: P973141

Luminaire Tested: FLR2-14-42HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973141
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-L835-CP375
Description: 1*4 FLR-2.0 4200 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

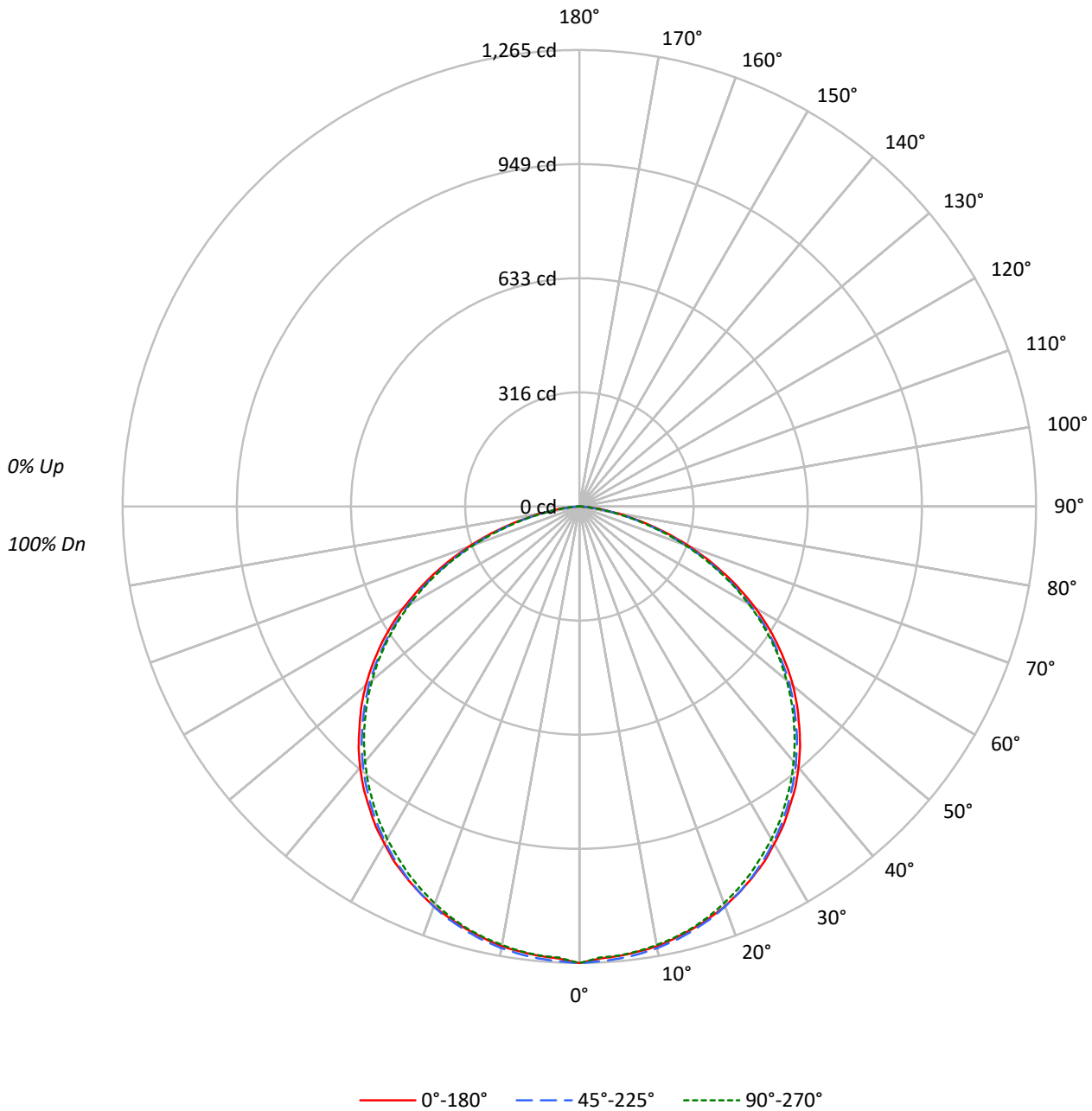
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3541.8 lumens
Efficiency: N/A
Efficacy: 111.0 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°	3405	3405	3405
5°	3379	3398	3374
10°	3382	3396	3372
15°	3377	3390	3369
20°	3376	3379	3352
25°	3369	3362	3331
30°	3354	3340	3307
35°	3336	3310	3278
40°	3318	3277	3244
45°	3277	3231	3197
50°	3234	3175	3138
55°	3153	3079	3050
60°	3031	2946	2920
65°	2838	2755	2725
70°	2559	2456	2436
75°	2146	2037	2015
80°	1559	1454	1412
85°	824	729	664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3277 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.4
10°-20°	344.2	9.7
20°-30°	522.9	14.8
30°-40°	632.6	17.9
40°-50°	657.4	18.6
50°-60°	588.6	16.6
60°-70°	429.3	12.1
70°-80°	211.4	6.0
80°-90°	35.4	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°	987.0	27.9
0°-40°	1619.6	45.7
0°-60°	2865.7	80.9
0°-90°	3541.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3541.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1251	1264	1258	1270	1249	119
15°	1212	1223	1217	1227	1209	342
25°	1134	1140	1132	1138	1122	523
35°	1016	1018	1008	1012	998	636
45°	861	860	849	851	840	665
55°	672	666	656	655	650	600
65°	446	440	433	430	428	440
75°	206	203	196	194	194	220
85°	27	26	24	21	22	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1265.4	1265.4	1265.4	1265.4	1265.4
2.5°	1254.4	1268.6	1261.8	1274.3	1251.8
5°	1250.8	1264.4	1258.1	1270.2	1249.2
7.5°	1244.5	1258.6	1251.8	1263.4	1243.4
10°	1237.7	1250.3	1242.9	1254.4	1234.0
12.5°	1225.6	1238.2	1231.4	1241.9	1223.0
15°	1212.0	1223.0	1216.7	1227.2	1209.4
17.5°	1196.3	1206.8	1200.0	1209.4	1191.6
20°	1179.0	1187.4	1180.1	1187.9	1170.6
22.5°	1157.5	1165.4	1157.5	1162.8	1147.6
25°	1134.5	1140.3	1132.4	1137.6	1121.9
27.5°	1109.9	1113.0	1105.2	1109.4	1093.1
30°	1079.5	1083.2	1074.8	1080.0	1064.3
32.5°	1050.2	1052.3	1042.8	1047.0	1032.9
35°	1015.6	1017.7	1007.7	1011.9	997.8
37.5°	982.6	982.1	971.6	974.2	962.2
40°	944.4	943.8	932.8	934.9	923.4
42.5°	905.1	903.0	892.5	893.6	883.1
45°	861.1	860.0	849.0	850.6	840.1
47.5°	818.7	815.5	804.5	805.0	796.1
50°	772.6	767.9	758.4	757.4	749.5
52.5°	723.3	718.1	707.6	706.6	700.8
55°	672.0	666.2	656.3	654.7	650.0
57.5°	619.1	611.8	603.9	600.8	597.1
60°	563.1	556.3	547.3	544.2	542.6
62.5°	504.9	498.1	491.3	488.2	486.1
65°	445.7	440.5	432.6	429.5	427.9
67.5°	385.5	380.8	373.5	369.8	369.3
70°	325.3	320.6	312.2	310.1	309.6
72.5°	265.0	260.8	253.0	250.9	250.9
75°	206.4	202.7	195.9	193.8	193.8
77.5°	150.8	147.7	142.5	139.8	139.8
80°	100.6	98.5	93.8	91.7	91.1
82.5°	58.1	57.1	52.9	50.8	51.9
85°	26.7	25.7	23.6	21.0	21.5
87.5°	6.8	6.3	4.7	3.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)