

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: P973205

Luminaire Tested: FLR2-14-30HE-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973205
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: FLR2-14-30HE-L840-CP250
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

Summary

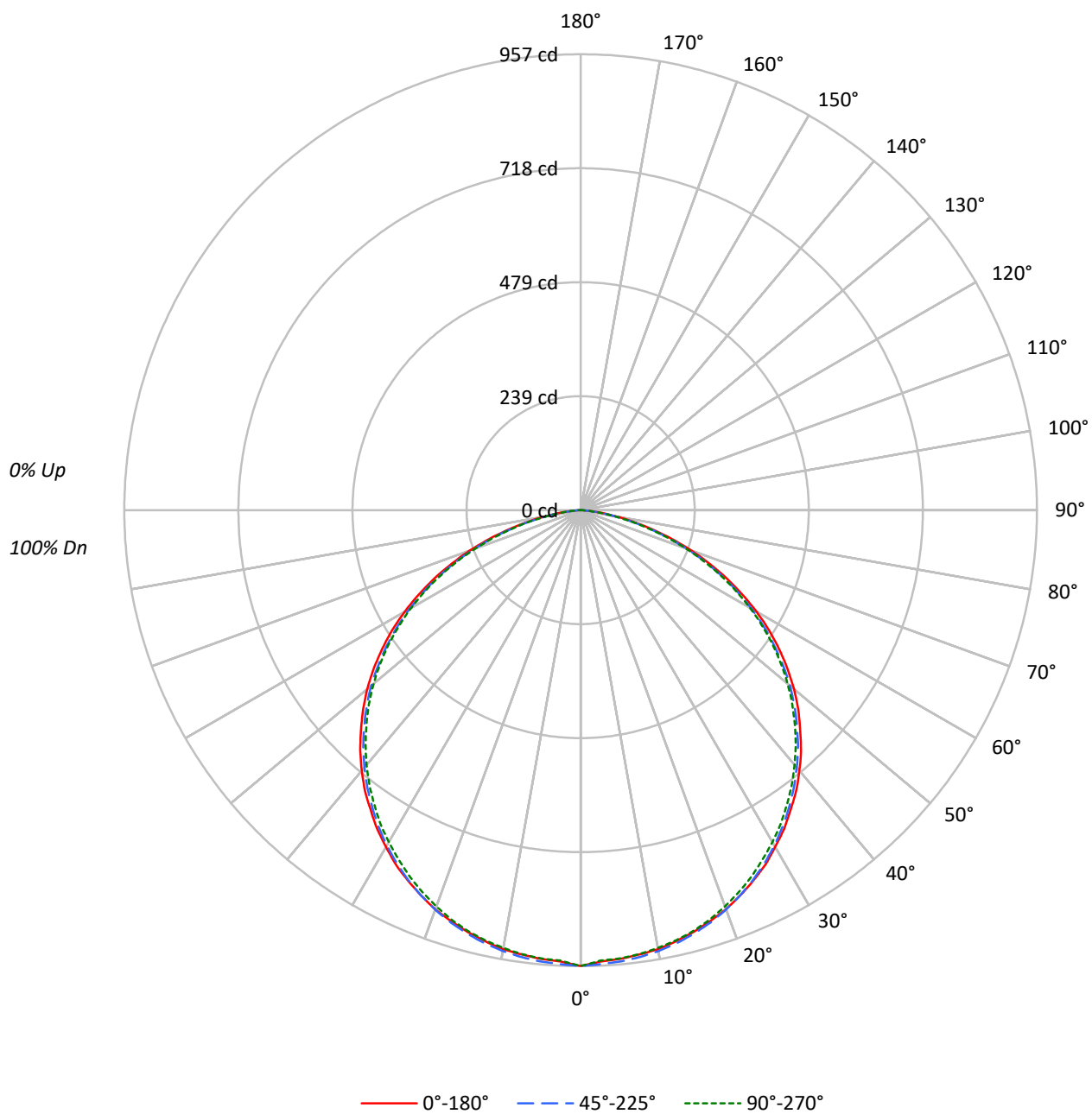
Lumens per Lamp: N/A
Luminaire Lumens: 2677.7 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.4
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

TEST NUMBER: P973205

CATALOG NUMBER: FLR2-14-30HE-L840-CP250

Luminous Intensity Polar Plot



TEST NUMBER: P973205

CATALOG NUMBER: FLR2-14-30HE-L840-CP250

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		
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°	2574	2574	2574
5°	2554	2569	2551
10°	2557	2568	2549
15°	2553	2563	2547
20°	2553	2555	2534
25°	2547	2542	2518
30°	2536	2525	2500
35°	2522	2503	2478
40°	2508	2478	2452
45°	2477	2443	2417
50°	2445	2400	2372
55°	2384	2328	2305
60°	2291	2227	2208
65°	2146	2083	2060
70°	1935	1857	1841
75°	1622	1540	1523
80°	1178	1099	1068
85°	624	550	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2477 cd/sqm

TEST NUMBER: P973205
CATALOG NUMBER: FLR2-14-30HE-L840-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	3.4
10°-20°	260.2	9.7
20°-30°	395.4	14.8
30°-40°	478.3	17.9
40°-50°	497.1	18.6
50°-60°	445.0	16.6
60°-70°	324.6	12.1
70°-80°	159.8	6.0
80°-90°	26.7	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°	746.2	27.9
0°-40°	1224.5	45.7
0°-60°	2166.5	80.9
0°-90°	2677.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2677.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	946	956	951	960	944	90
15°	916	925	920	928	914	259
25°	858	862	856	860	848	395
35°	768	769	762	765	754	481
45°	651	650	642	643	635	503
55°	508	504	496	495	491	454
65°	337	333	327	325	324	333
75°	156	153	148	146	146	166
85°	20	19	18	16	16	29
90°	0	0	0	0	0	

TEST NUMBER: P973205

CATALOG NUMBER: FLR2-14-30HE-L840-CP250

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	956.7	956.7	956.7	956.7	956.7
2.5°	948.4	959.1	953.9	963.4	946.4
5°	945.6	955.9	951.2	960.3	944.4
7.5°	940.9	951.6	946.4	955.1	940.1
10°	935.7	945.2	939.7	948.4	933.0
12.5°	926.6	936.1	931.0	938.9	924.6
15°	916.3	924.6	919.9	927.8	914.3
17.5°	904.4	912.4	907.2	914.3	900.9
20°	891.4	897.7	892.2	898.1	885.0
22.5°	875.1	881.1	875.1	879.1	867.6
25°	857.7	862.1	856.1	860.1	848.2
27.5°	839.1	841.5	835.5	838.7	826.4
30°	816.1	818.9	812.6	816.5	804.6
32.5°	794.0	795.5	788.4	791.6	780.9
35°	767.8	769.4	761.9	765.1	754.4
37.5°	742.9	742.5	734.6	736.5	727.4
40°	714.0	713.6	705.3	706.8	698.1
42.5°	684.3	682.7	674.8	675.6	667.6
45°	651.0	650.2	641.9	643.1	635.2
47.5°	618.9	616.6	608.2	608.6	601.9
50°	584.1	580.5	573.4	572.6	566.7
52.5°	546.9	542.9	535.0	534.2	529.8
55°	508.1	503.7	496.2	495.0	491.4
57.5°	468.1	462.5	456.6	454.2	451.4
60°	425.7	420.5	413.8	411.4	410.2
62.5°	381.7	376.6	371.4	369.1	367.5
65°	337.0	333.0	327.1	324.7	323.5
67.5°	291.4	287.9	282.3	279.6	279.2
70°	245.9	242.3	236.0	234.4	234.0
72.5°	200.4	197.2	191.3	189.7	189.7
75°	156.0	153.2	148.1	146.5	146.5
77.5°	114.0	111.7	107.7	105.7	105.7
80°	76.0	74.4	70.9	69.3	68.9
82.5°	44.0	43.2	40.0	38.4	39.2
85°	20.2	19.4	17.8	15.8	16.2
87.5°	5.1	4.8	3.6	2.8	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)