

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: P973295

Luminaire Tested: FLR2-14-30HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973295
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-L950-CP080
Description: 1*4 FLR-2.0 5000 Lumen High Efficacy at 5000CCT & 90 CRI Clear Polycarbonate (0.080" thickness)

Light Source:
Ballast/Driver: -

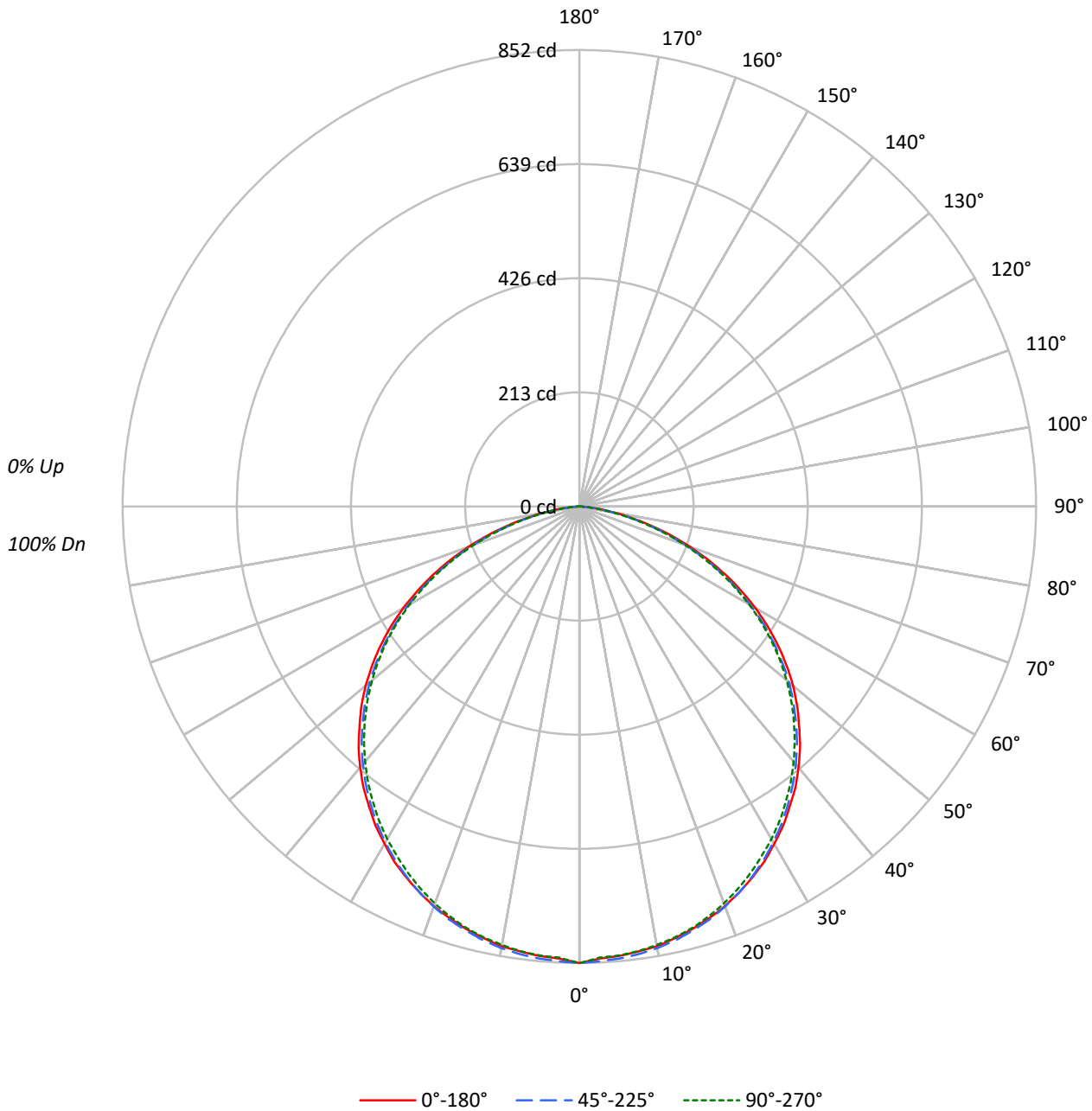
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2385.1 lumens
Efficiency: N/A
Efficacy: 106.5 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

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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°	2293	2293	2293
5°	2275	2289	2272
10°	2278	2287	2271
15°	2274	2283	2269
20°	2274	2276	2257
25°	2268	2264	2243
30°	2259	2249	2227
35°	2247	2229	2207
40°	2234	2207	2184
45°	2207	2176	2153
50°	2178	2138	2113
55°	2123	2074	2054
60°	2041	1984	1967
65°	1911	1855	1835
70°	1723	1654	1640
75°	1445	1371	1357
80°	1049	978	951
85°	556	491	448

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2207 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	3.4
10°-20°	231.8	9.7
20°-30°	352.2	14.8
30°-40°	426.0	17.9
40°-50°	442.7	18.6
50°-60°	396.4	16.6
60°-70°	289.1	12.1
70°-80°	142.4	6.0
80°-90°	23.8	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°	664.7	27.9
0°-40°	1090.7	45.7
0°-60°	1929.8	80.9
0°-90°	2385.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2385.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	842	852	847	855	841	80
15°	816	824	819	826	814	231
25°	764	768	763	766	756	352
35°	684	685	679	682	672	428
45°	580	579	572	573	566	448
55°	452	449	442	441	438	404
65°	300	297	291	289	288	296
75°	139	136	132	130	130	148
85°	18	17	16	14	14	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.2	852.2	852.2	852.2	852.2
2.5°	844.8	854.3	849.7	858.2	843.0
5°	842.3	851.5	847.2	855.3	841.2
7.5°	838.1	847.6	843.0	850.8	837.4
10°	833.5	841.9	837.0	844.8	831.0
12.5°	825.4	833.8	829.2	836.3	823.6
15°	816.2	823.6	819.4	826.4	814.4
17.5°	805.6	812.7	808.1	814.4	802.4
20°	794.0	799.6	794.7	800.0	788.3
22.5°	779.5	784.8	779.5	783.0	772.8
25°	764.0	767.9	762.6	766.1	755.5
27.5°	747.4	749.5	744.2	747.1	736.1
30°	727.0	729.4	723.8	727.3	716.7
32.5°	707.2	708.6	702.3	705.1	695.6
35°	683.9	685.3	678.6	681.5	671.9
37.5°	661.7	661.4	654.3	656.1	647.9
40°	636.0	635.6	628.2	629.6	621.8
42.5°	609.5	608.1	601.0	601.7	594.7
45°	579.9	579.2	571.8	572.8	565.8
47.5°	551.3	549.2	541.8	542.1	536.1
50°	520.3	517.1	510.7	510.0	504.7
52.5°	487.1	483.6	476.5	475.8	471.9
55°	452.5	448.7	442.0	440.9	437.7
57.5°	416.9	412.0	406.7	404.6	402.1
60°	379.2	374.6	368.6	366.5	365.4
62.5°	340.0	335.4	330.9	328.7	327.3
65°	300.2	296.6	291.3	289.2	288.2
67.5°	259.6	256.4	251.5	249.0	248.7
70°	219.0	215.9	210.2	208.8	208.5
72.5°	178.5	175.7	170.4	169.0	169.0
75°	139.0	136.5	131.9	130.5	130.5
77.5°	101.6	99.5	95.9	94.2	94.2
80°	67.7	66.3	63.1	61.7	61.4
82.5°	39.2	38.4	35.6	34.2	34.9
85°	18.0	17.3	15.9	14.1	14.5
87.5°	4.6	4.2	3.2	2.5	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)