

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: P973245

Luminaire Tested: FLR2-14-30HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973245
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-L940-CP375
Description: 1*4 FLR-2.0 4000 Lumen High Efficacy at 4000CCT & 90 CRI Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

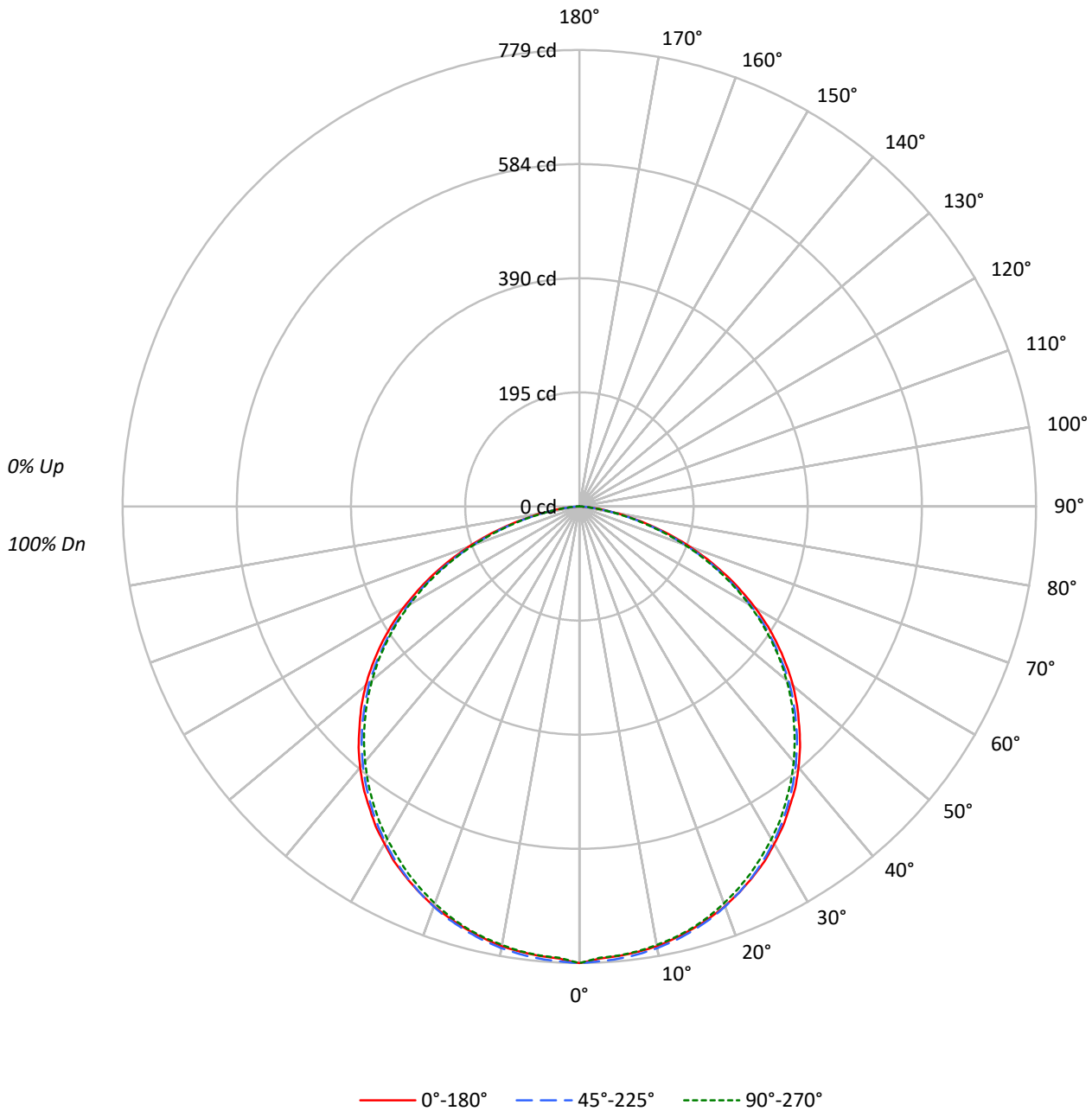
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2181.1 lumens
Efficiency: N/A
Efficacy: 97.4 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°	2097	2097	2097
5°	2081	2093	2078
10°	2083	2091	2076
15°	2079	2087	2075
20°	2079	2081	2064
25°	2074	2071	2051
30°	2066	2057	2037
35°	2054	2039	2019
40°	2043	2018	1998
45°	2018	1990	1969
50°	1992	1955	1932
55°	1941	1896	1878
60°	1866	1814	1799
65°	1748	1696	1678
70°	1576	1512	1500
75°	1321	1254	1240
80°	959	894	869
85°	506	448	408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2018 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.4
10°-20°	212.0	9.7
20°-30°	322.0	14.8
30°-40°	389.6	17.9
40°-50°	404.9	18.6
50°-60°	362.5	16.6
60°-70°	264.4	12.1
70°-80°	130.2	6.0
80°-90°	21.8	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°	607.8	27.9
0°-40°	997.4	45.7
0°-60°	1764.8	80.9
0°-90°	2181.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2181.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	770	779	775	782	769	73
15°	746	753	749	756	745	211
25°	699	702	697	701	691	322
35°	625	627	621	623	614	392
45°	530	530	523	524	517	409
55°	414	410	404	403	400	369
65°	274	271	266	264	264	271
75°	127	125	121	119	119	135
85°	16	16	14	13	13	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.3	779.3	779.3	779.3	779.3
2.5°	772.5	781.2	777.0	784.8	770.9
5°	770.2	778.6	774.8	782.2	769.3
7.5°	766.4	775.1	770.9	778.0	765.7
10°	762.2	769.9	765.4	772.5	759.9
12.5°	754.8	762.5	758.3	764.8	753.2
15°	746.4	753.2	749.3	755.7	744.8
17.5°	736.7	743.2	739.0	744.8	733.8
20°	726.1	731.2	726.7	731.5	720.9
22.5°	712.8	717.7	712.8	716.1	706.7
25°	698.6	702.2	697.4	700.6	690.9
27.5°	683.5	685.4	680.6	683.2	673.2
30°	664.8	667.0	661.9	665.1	655.4
32.5°	646.7	648.0	642.2	644.8	636.1
35°	625.4	626.7	620.6	623.2	614.5
37.5°	605.1	604.8	598.3	599.9	592.5
40°	581.6	581.2	574.5	575.7	568.7
42.5°	557.4	556.1	549.6	550.3	543.8
45°	530.3	529.6	522.9	523.8	517.4
47.5°	504.1	502.2	495.4	495.8	490.3
50°	475.8	472.9	467.1	466.4	461.6
52.5°	445.4	442.2	435.8	435.1	431.6
55°	413.8	410.3	404.2	403.2	400.3
57.5°	381.3	376.7	371.9	370.0	367.7
60°	346.7	342.5	337.1	335.1	334.2
62.5°	310.9	306.7	302.6	300.6	299.3
65°	274.5	271.3	266.4	264.5	263.5
67.5°	237.4	234.5	230.0	227.7	227.4
70°	200.3	197.4	192.2	190.9	190.6
72.5°	163.2	160.6	155.8	154.5	154.5
75°	127.1	124.8	120.6	119.3	119.3
77.5°	92.9	91.0	87.7	86.1	86.1
80°	61.9	60.6	57.7	56.4	56.1
82.5°	35.8	35.2	32.6	31.3	31.9
85°	16.4	15.8	14.5	12.9	13.2
87.5°	4.2	3.9	2.9	2.3	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)