

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: P973313

Luminaire Tested: FLR2-14-80HE-L950-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973313
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: FLR2-14-80HE-L950-CP250
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 90 CRI with Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

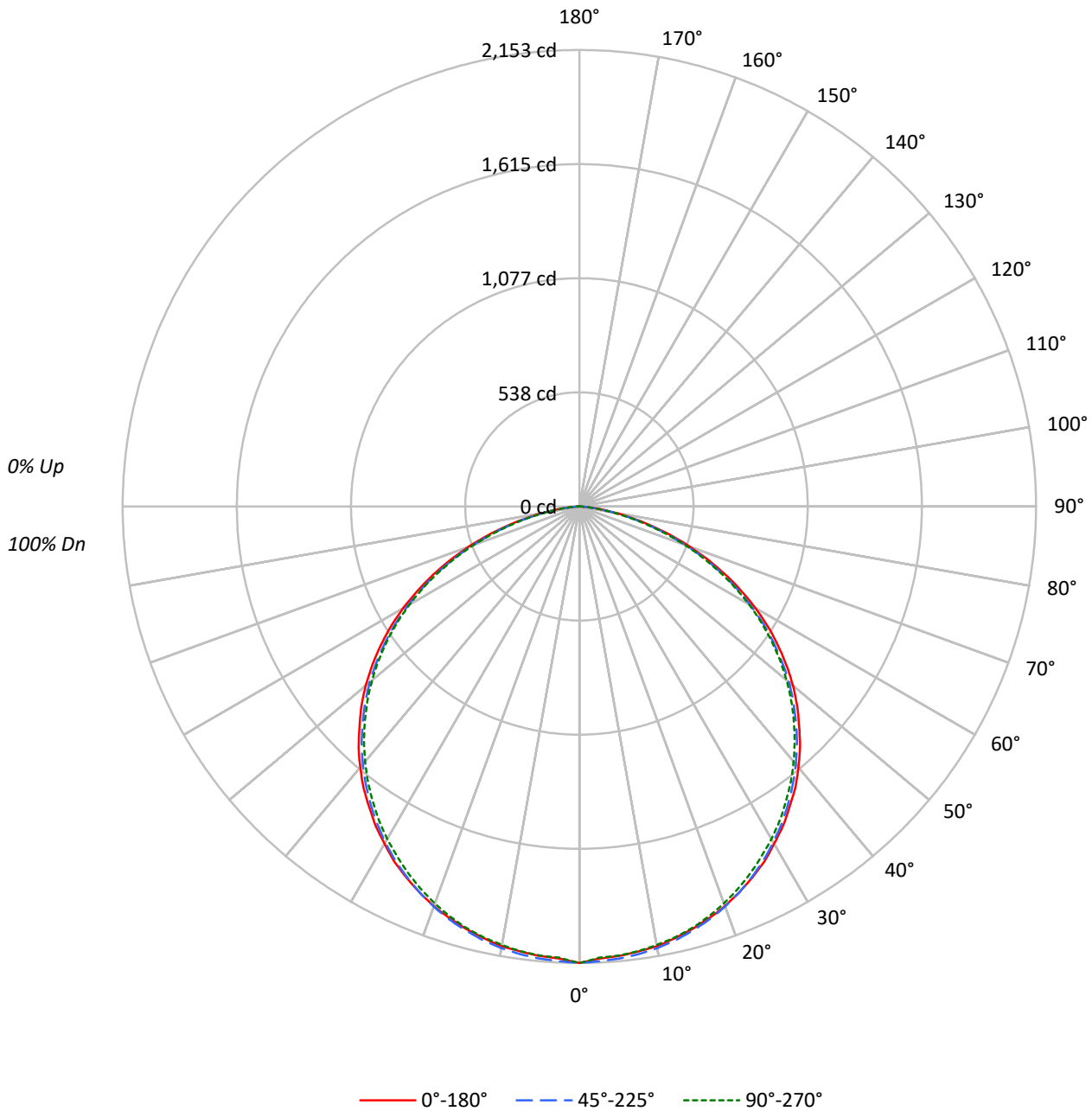
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6027.2 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): 61.9
Input Voltage (V): 120
Input Current (A_{in}): 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°	5795	5795	5795
5°	5750	5783	5742
10°	5755	5779	5738
15°	5746	5768	5734
20°	5746	5751	5705
25°	5732	5722	5669
30°	5708	5683	5628
35°	5678	5634	5578
40°	5645	5577	5520
45°	5576	5498	5441
50°	5504	5403	5340
55°	5365	5240	5189
60°	5157	5013	4970
65°	4830	4688	4637
70°	4355	4179	4145
75°	3651	3466	3429
80°	2651	2472	2404
85°	1405	1238	1127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5576 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.0	3.4
10°-20°	585.8	9.7
20°-30°	889.9	14.8
30°-40°	1076.5	17.9
40°-50°	1118.8	18.6
50°-60°	1001.7	16.6
60°-70°	730.6	12.1
70°-80°	359.8	6.0
80°-90°	60.2	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°	1679.7	27.9
0°-40°	2756.2	45.7
0°-60°	4876.7	80.9
0°-90°	6027.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6027.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2153	2153	2153	2153	2153	
5°	2128	2152	2141	2162	2126	202
15°	2062	2081	2071	2088	2058	583
25°	1931	1940	1927	1936	1909	890
35°	1728	1732	1715	1722	1698	1082
45°	1465	1464	1445	1448	1430	1131
55°	1144	1134	1117	1114	1106	1021
65°	758	750	736	731	728	749
75°	351	345	333	330	330	374
85°	46	44	40	36	36	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2153.4	2153.4	2153.4	2153.4	2153.4
2.5°	2134.7	2158.8	2147.2	2168.6	2130.3
5°	2128.5	2151.7	2141.0	2161.5	2125.8
7.5°	2117.8	2141.9	2130.3	2149.9	2116.0
10°	2106.2	2127.6	2115.1	2134.7	2100.0
12.5°	2085.7	2107.1	2095.5	2113.3	2081.3
15°	2062.5	2081.3	2070.6	2088.4	2058.1
17.5°	2035.8	2053.6	2042.0	2058.1	2027.8
20°	2006.4	2020.6	2008.2	2021.5	1992.1
22.5°	1969.8	1983.2	1969.8	1978.7	1952.9
25°	1930.6	1940.4	1927.1	1936.0	1909.2
27.5°	1888.7	1894.1	1880.7	1887.8	1860.2
30°	1837.0	1843.3	1829.0	1837.9	1811.2
32.5°	1787.1	1790.7	1774.6	1781.8	1757.7
35°	1728.3	1731.9	1714.9	1722.0	1698.0
37.5°	1672.1	1671.2	1653.4	1657.9	1637.4
40°	1607.1	1606.2	1587.5	1591.0	1571.4
42.5°	1540.2	1536.6	1518.8	1520.6	1502.8
45°	1465.3	1463.6	1444.8	1447.5	1429.7
47.5°	1393.1	1387.8	1369.1	1370.0	1354.8
50°	1314.7	1306.7	1290.6	1288.9	1275.5
52.5°	1230.9	1222.0	1204.2	1202.4	1192.6
55°	1143.6	1133.8	1116.8	1114.2	1106.1
57.5°	1053.6	1041.1	1027.7	1022.4	1016.1
60°	958.2	946.6	931.4	926.1	923.4
62.5°	859.2	847.7	836.1	830.7	827.2
65°	758.5	749.6	736.2	730.9	728.2
67.5°	656.0	648.0	635.5	629.3	628.4
70°	553.5	545.5	531.2	527.7	526.8
72.5°	451.0	443.9	430.5	426.9	426.9
75°	351.2	344.9	333.4	329.8	329.8
77.5°	256.7	251.4	242.4	238.0	238.0
80°	171.1	167.6	159.5	156.0	155.1
82.5°	98.9	97.2	90.0	86.5	88.2
85°	45.5	43.7	40.1	35.7	36.5
87.5°	11.6	10.7	8.0	6.2	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)