

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: P973178

Luminaire Tested: FLR2-14-80HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973178
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-L935-CP375
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 90 CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

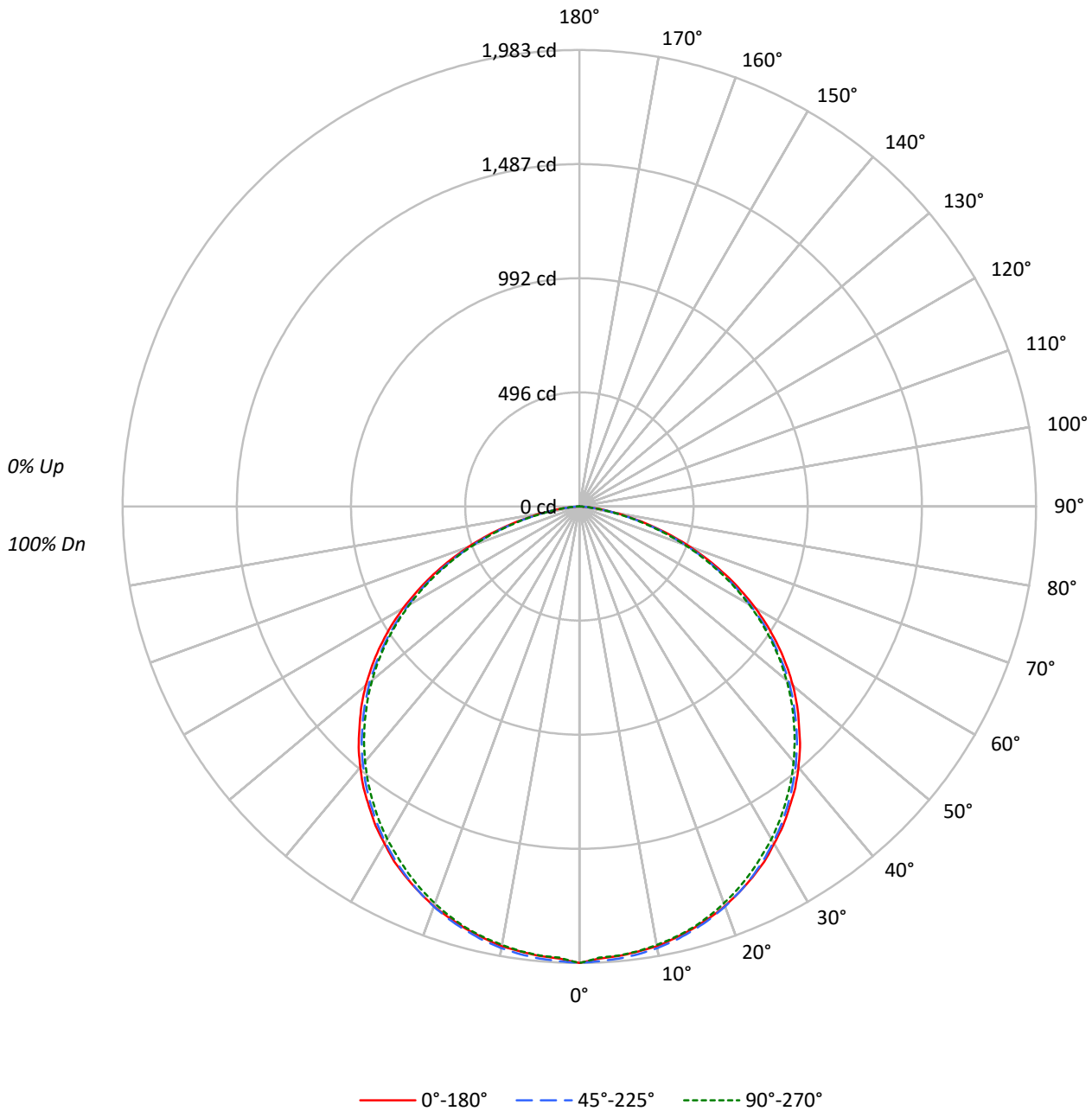
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5551.0 lumens
Efficiency: N/A
Efficacy: 89.7 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 (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																		
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	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°	5337	5337	5337
5°	5295	5326	5289
10°	5300	5323	5285
15°	5292	5313	5281
20°	5292	5296	5254
25°	5279	5270	5221
30°	5257	5234	5183
35°	5229	5188	5137
40°	5199	5136	5084
45°	5136	5064	5011
50°	5069	4976	4918
55°	4941	4826	4780
60°	4750	4617	4577
65°	4448	4318	4271
70°	4011	3850	3818
75°	3362	3192	3158
80°	2442	2276	2213
85°	1294	1139	1041

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5136 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.9	3.4
10°-20°	539.5	9.7
20°-30°	819.6	14.8
30°-40°	991.4	17.9
40°-50°	1030.4	18.6
50°-60°	922.6	16.6
60°-70°	672.9	12.1
70°-80°	331.3	6.0
80°-90°	55.4	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°	1547.0	27.9
0°-40°	2538.4	45.7
0°-60°	4491.4	80.9
0°-90°	5551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1960	1982	1972	1991	1958	186
15°	1900	1917	1907	1923	1896	537
25°	1778	1787	1775	1783	1758	820
35°	1592	1595	1579	1586	1564	997
45°	1350	1348	1331	1333	1317	1042
55°	1053	1044	1029	1026	1019	940
65°	699	690	678	673	671	690
75°	323	318	307	304	304	345
85°	42	40	37	33	34	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.3	1983.3	1983.3	1983.3	1983.3
2.5°	1966.1	1988.3	1977.6	1997.3	1962.0
5°	1960.3	1981.7	1971.8	1990.7	1957.9
7.5°	1950.5	1972.7	1962.0	1980.0	1948.8
10°	1939.8	1959.5	1948.0	1966.1	1934.1
12.5°	1920.9	1940.6	1930.0	1946.4	1916.8
15°	1899.6	1916.8	1907.0	1923.4	1895.5
17.5°	1875.0	1891.4	1880.7	1895.5	1867.6
20°	1847.9	1861.0	1849.5	1861.8	1834.7
22.5°	1814.2	1826.5	1814.2	1822.4	1798.6
25°	1778.1	1787.1	1774.8	1783.0	1758.4
27.5°	1739.5	1744.4	1732.1	1738.7	1713.2
30°	1691.9	1697.6	1684.5	1692.7	1668.1
32.5°	1645.9	1649.2	1634.4	1641.0	1618.8
35°	1591.7	1595.0	1579.4	1586.0	1563.8
37.5°	1540.0	1539.2	1522.8	1526.9	1508.0
40°	1480.1	1479.3	1462.0	1465.3	1447.3
42.5°	1418.5	1415.3	1398.8	1400.5	1384.1
45°	1349.6	1347.9	1330.7	1333.2	1316.7
47.5°	1283.1	1278.2	1260.9	1261.7	1247.8
50°	1210.8	1203.5	1188.7	1187.0	1174.7
52.5°	1133.7	1125.5	1109.1	1107.4	1098.4
55°	1053.2	1044.2	1028.6	1026.1	1018.8
57.5°	970.3	958.8	946.5	941.6	935.8
60°	882.5	871.8	857.9	852.9	850.5
62.5°	791.4	780.7	770.0	765.1	761.8
65°	698.6	690.4	678.1	673.1	670.7
67.5°	604.2	596.8	585.3	579.6	578.7
70°	509.8	502.4	489.3	486.0	485.2
72.5°	415.4	408.8	396.5	393.2	393.2
75°	323.4	317.7	307.0	303.7	303.7
77.5°	236.4	231.5	223.3	219.2	219.2
80°	157.6	154.3	146.9	143.7	142.8
82.5°	91.1	89.5	82.9	79.6	81.3
85°	41.9	40.2	36.9	32.8	33.7
87.5°	10.7	9.9	7.4	5.7	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)