

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: P973213

Luminaire Tested: FLR2-14-80HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973213
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-L840-CP375
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 4000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

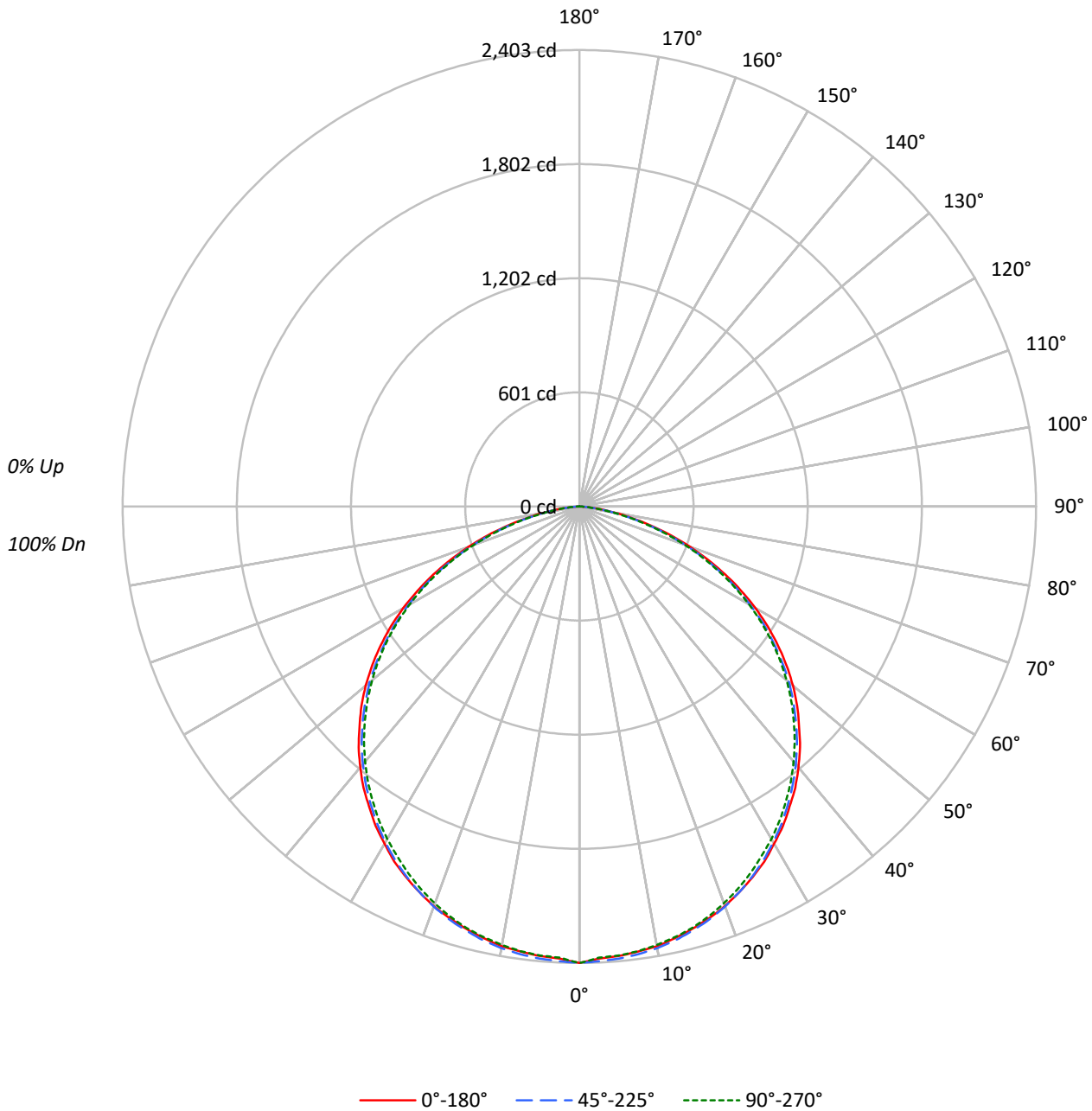
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6726.6 lumens
Efficiency: N/A
Efficacy: 108.7 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									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	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85													
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71													
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60													
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51													
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44													
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39													
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34													
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30						30													
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27													
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25													

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6467	6467	6467
5°	6417	6454	6409
10°	6423	6450	6404
15°	6413	6438	6399
20°	6412	6418	6367
25°	6397	6386	6327
30°	6371	6343	6281
35°	6336	6287	6225
40°	6300	6224	6160
45°	6224	6137	6072
50°	6143	6030	5959
55°	5988	5848	5792
60°	5755	5595	5547
65°	5390	5232	5175
70°	4860	4665	4626
75°	4075	3868	3827
80°	2960	2760	2682
85°	1565	1383	1260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6224 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	3.4
10°-20°	653.7	9.7
20°-30°	993.2	14.8
30°-40°	1201.4	17.9
40°-50°	1248.6	18.6
50°-60°	1117.9	16.6
60°-70°	815.4	12.1
70°-80°	401.5	6.0
80°-90°	67.1	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°	1874.6	27.9
0°-40°	3076.0	45.7
0°-60°	5442.5	80.9
0°-90°	6726.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6726.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2403	2403	2403	2403	2403	
5°	2376	2401	2389	2412	2372	226
15°	2302	2323	2311	2331	2297	650
25°	2155	2166	2151	2161	2131	993
35°	1929	1933	1914	1922	1895	1208
45°	1635	1633	1612	1616	1596	1263
55°	1276	1265	1246	1243	1234	1139
65°	846	837	822	816	813	836
75°	392	385	372	368	368	418
85°	51	49	45	40	41	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2403.3	2403.3	2403.3	2403.3	2403.3
2.5°	2382.4	2409.3	2396.4	2420.2	2377.5
5°	2375.5	2401.3	2389.4	2412.3	2372.5
7.5°	2363.5	2390.4	2377.5	2399.3	2361.5
10°	2350.6	2374.5	2360.5	2382.4	2343.6
12.5°	2327.7	2351.6	2338.7	2358.6	2322.7
15°	2301.9	2322.7	2310.8	2330.7	2296.9
17.5°	2272.0	2291.9	2279.0	2296.9	2263.1
20°	2239.2	2255.1	2241.2	2256.1	2223.3
22.5°	2198.4	2213.3	2198.4	2208.4	2179.5
25°	2154.6	2165.6	2150.7	2160.6	2130.8
27.5°	2107.9	2113.9	2098.9	2106.9	2076.0
30°	2050.2	2057.1	2041.2	2051.2	2021.3
32.5°	1994.5	1998.5	1980.6	1988.5	1961.7
35°	1928.8	1932.8	1913.9	1921.9	1895.0
37.5°	1866.2	1865.2	1845.3	1850.2	1827.4
40°	1793.5	1792.5	1771.7	1775.6	1753.7
42.5°	1718.9	1715.0	1695.1	1697.0	1677.2
45°	1635.4	1633.4	1612.5	1615.5	1595.6
47.5°	1554.8	1548.8	1527.9	1528.9	1512.0
50°	1467.3	1458.3	1440.4	1438.4	1423.5
52.5°	1373.8	1363.8	1343.9	1341.9	1331.0
55°	1276.3	1265.3	1246.4	1243.4	1234.5
57.5°	1175.8	1161.9	1147.0	1141.0	1134.0
60°	1069.4	1056.4	1039.5	1033.5	1030.6
62.5°	958.9	946.0	933.1	927.1	923.1
65°	846.5	836.6	821.7	815.7	812.7
67.5°	732.1	723.2	709.3	702.3	701.3
70°	617.7	608.8	592.9	588.9	587.9
72.5°	503.3	495.4	480.5	476.5	476.5
75°	391.9	385.0	372.0	368.1	368.1
77.5°	286.5	280.5	270.6	265.6	265.6
80°	191.0	187.0	178.1	174.1	173.1
82.5°	110.4	108.4	100.5	96.5	98.5
85°	50.7	48.7	44.8	39.8	40.8
87.5°	12.9	11.9	9.0	7.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)