

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: P973283

Luminaire Tested: FLR2-14-80HE-L850-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973283
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-L850-CP375
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 5000CCT & 80CRI with Clear Polycarbonate (0.375" thickness)

Light Source:
Ballast/Driver: -

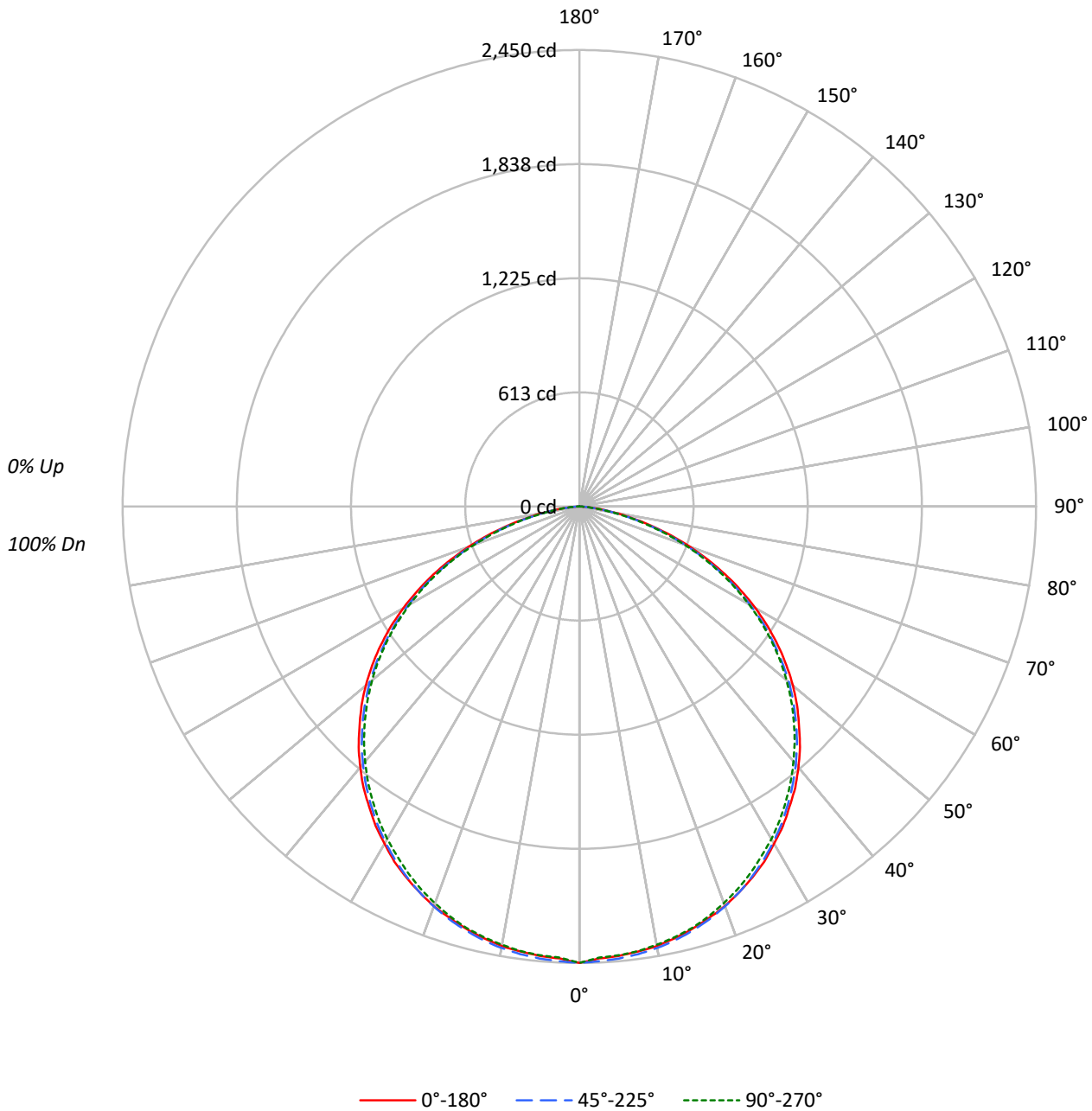
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6857.2 lumens
Efficiency: N/A
Efficacy: 110.8 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				20	
RC	80				70				50				30				10	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	6593	6593	6593
5°	6541	6580	6533
10°	6548	6575	6528
15°	6537	6563	6523
20°	6537	6543	6490
25°	6522	6510	6449
30°	6494	6466	6403
35°	6459	6410	6346
40°	6423	6345	6280
45°	6344	6256	6190
50°	6262	6147	6075
55°	6104	5961	5904
60°	5867	5703	5654
65°	5495	5333	5275
70°	4954	4755	4715
75°	4154	3944	3901
80°	3017	2813	2734
85°	1596	1408	1284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6344 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.1	3.4
10°-20°	666.4	9.7
20°-30°	1012.5	14.8
30°-40°	1224.7	17.9
40°-50°	1272.9	18.6
50°-60°	1139.6	16.6
60°-70°	831.2	12.1
70°-80°	409.3	6.0
80°-90°	68.4	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°	1911.0	27.9
0°-40°	3135.7	45.7
0°-60°	5548.2	80.9
0°-90°	6857.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6857.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2450	2450	2450	2450	2450	
5°	2422	2448	2436	2459	2419	230
15°	2347	2368	2356	2376	2342	663
25°	2196	2208	2192	2203	2172	1013
35°	1966	1970	1951	1959	1932	1231
45°	1667	1665	1644	1647	1627	1287
55°	1301	1290	1271	1268	1258	1161
65°	863	853	838	832	828	852
75°	400	392	379	375	375	426
85°	52	50	46	41	42	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2450.0	2450.0	2450.0	2450.0	2450.0
2.5°	2428.7	2456.1	2442.9	2467.2	2423.6
5°	2421.6	2448.0	2435.8	2459.1	2418.6
7.5°	2409.4	2436.8	2423.6	2445.9	2407.4
10°	2396.2	2420.6	2406.4	2428.7	2389.1
12.5°	2372.9	2397.3	2384.1	2404.4	2367.9
15°	2346.6	2367.9	2355.7	2376.0	2341.5
17.5°	2316.1	2336.4	2323.2	2341.5	2307.0
20°	2282.7	2298.9	2284.7	2299.9	2266.4
22.5°	2241.1	2256.3	2241.1	2251.2	2221.8
25°	2196.5	2207.6	2192.4	2202.6	2172.1
27.5°	2148.8	2154.9	2139.7	2147.8	2116.4
30°	2090.0	2097.1	2080.9	2091.0	2060.6
32.5°	2033.2	2037.3	2019.0	2027.1	1999.7
35°	1966.3	1970.3	1951.1	1959.2	1931.8
37.5°	1902.4	1901.4	1881.1	1886.2	1862.8
40°	1828.4	1827.4	1806.1	1810.1	1787.8
42.5°	1752.3	1748.3	1728.0	1730.0	1709.7
45°	1667.1	1665.1	1643.8	1646.8	1626.6
47.5°	1585.0	1578.9	1557.6	1558.6	1541.4
50°	1495.8	1486.6	1468.4	1466.3	1451.1
52.5°	1400.4	1390.3	1370.0	1368.0	1356.8
55°	1301.1	1289.9	1270.6	1267.6	1258.5
57.5°	1198.6	1184.4	1169.2	1163.1	1156.0
60°	1090.1	1076.9	1059.7	1053.6	1050.6
62.5°	977.6	964.4	951.2	945.1	941.1
65°	863.0	852.8	837.6	831.5	828.5
67.5°	746.4	737.2	723.0	715.9	714.9
70°	629.7	620.6	604.4	600.3	599.3
72.5°	513.1	505.0	489.8	485.7	485.7
75°	399.5	392.4	379.3	375.2	375.2
77.5°	292.1	286.0	275.8	270.8	270.8
80°	194.7	190.6	181.5	177.5	176.4
82.5°	112.6	110.5	102.4	98.4	100.4
85°	51.7	49.7	45.6	40.6	41.6
87.5°	13.2	12.2	9.1	7.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)