

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: P973058

Luminaire Tested: FLR2-14-80HE-L830-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973058
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-L830-CP125
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3000CCT & 80CRI with Clear Polycarbonate (0.125" thickness)

Light Source:
Ballast/Driver: -

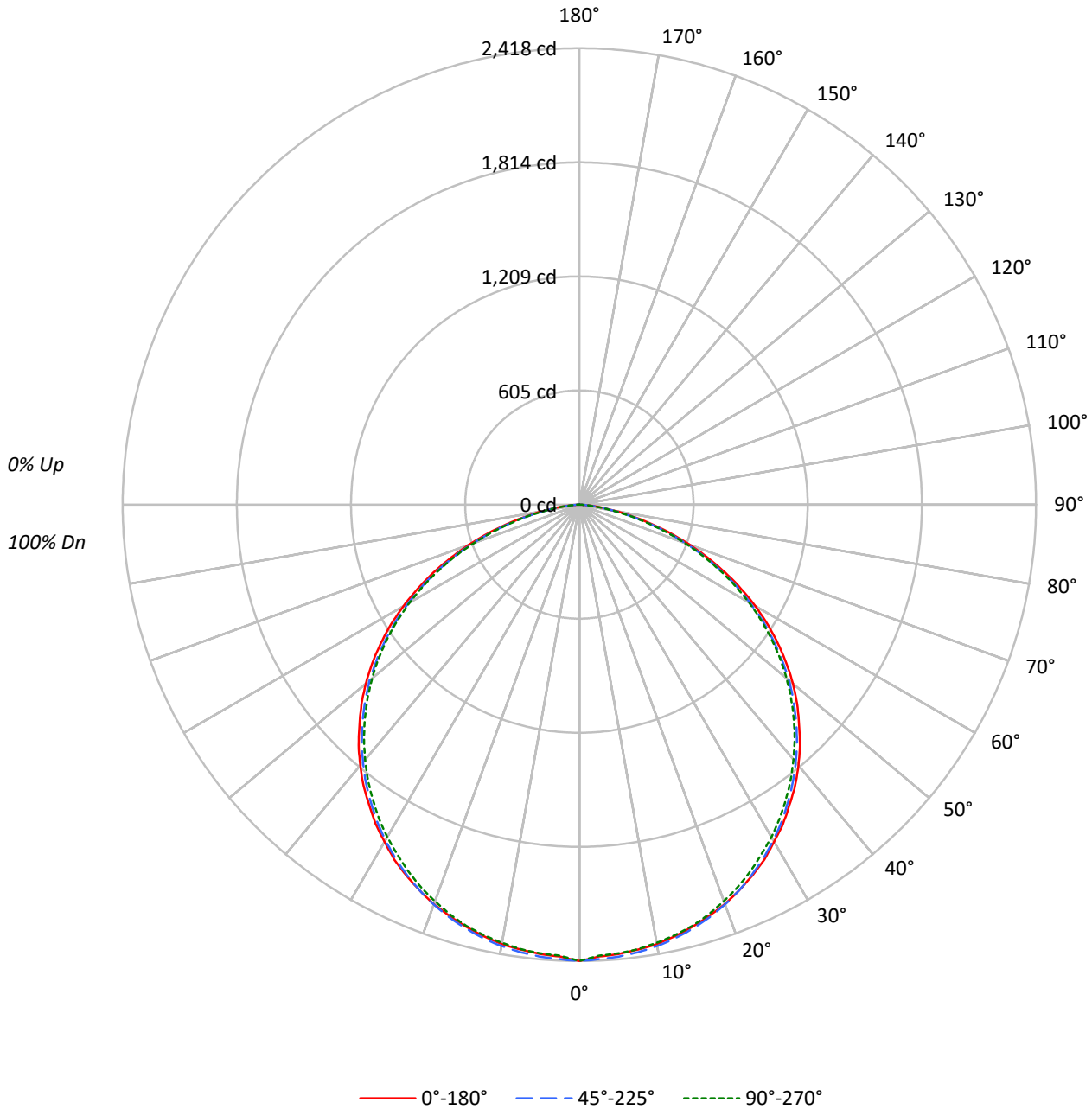
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6767.4 lumens
Efficiency: N/A
Efficacy: 109.3 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°	6507	6507	6507
5°	6456	6494	6448
10°	6462	6489	6443
15°	6452	6477	6438
20°	6451	6457	6405
25°	6436	6424	6365
30°	6409	6381	6319
35°	6375	6325	6263
40°	6339	6261	6198
45°	6261	6174	6109
50°	6180	6067	5995
55°	6024	5883	5827
60°	5790	5628	5580
65°	5423	5264	5206
70°	4890	4693	4654
75°	4100	3892	3850
80°	2978	2775	2698
85°	1575	1389	1266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6261 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.0	3.4
10°-20°	657.7	9.7
20°-30°	999.2	14.8
30°-40°	1208.7	17.9
40°-50°	1256.2	18.6
50°-60°	1124.7	16.6
60°-70°	820.3	12.1
70°-80°	404.0	6.0
80°-90°	67.5	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°	1885.9	27.9
0°-40°	3094.6	45.7
0°-60°	5475.5	80.9
0°-90°	6767.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6767.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2418	2418	2418	2418	2418	
5°	2390	2416	2404	2427	2387	227
15°	2316	2337	2325	2345	2311	654
25°	2168	2179	2164	2174	2144	999
35°	1940	1944	1926	1934	1906	1215
45°	1645	1643	1622	1625	1605	1270
55°	1284	1273	1254	1251	1242	1146
65°	852	842	827	821	818	841
75°	394	387	374	370	370	420
85°	51	49	45	40	41	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2417.9	2417.9	2417.9	2417.9	2417.9
2.5°	2396.9	2423.9	2410.9	2434.9	2391.9
5°	2389.9	2415.9	2403.9	2426.9	2386.9
7.5°	2377.9	2404.9	2391.9	2413.9	2375.9
10°	2364.9	2388.9	2374.9	2396.9	2357.9
12.5°	2341.9	2365.9	2352.9	2372.9	2336.8
15°	2315.8	2336.8	2324.8	2344.9	2310.8
17.5°	2285.8	2305.8	2292.8	2310.8	2276.8
20°	2252.8	2268.8	2254.8	2269.8	2236.8
22.5°	2211.7	2226.8	2211.7	2221.8	2192.7
25°	2167.7	2178.7	2163.7	2173.7	2143.7
27.5°	2120.7	2126.7	2111.7	2119.7	2088.7
30°	2062.6	2069.6	2053.6	2063.6	2033.6
32.5°	2006.6	2010.6	1992.6	2000.6	1973.6
35°	1940.5	1944.5	1925.5	1933.5	1906.5
37.5°	1877.5	1876.5	1856.5	1861.5	1838.5
40°	1804.4	1803.4	1782.4	1786.4	1764.4
42.5°	1729.4	1725.4	1705.3	1707.4	1687.3
45°	1645.3	1643.3	1622.3	1625.3	1605.3
47.5°	1564.2	1558.2	1537.2	1538.2	1521.2
50°	1476.2	1467.2	1449.1	1447.1	1432.1
52.5°	1382.1	1372.1	1352.1	1350.1	1339.1
55°	1284.0	1273.0	1254.0	1251.0	1242.0
57.5°	1182.9	1168.9	1153.9	1147.9	1140.9
60°	1075.9	1062.8	1045.8	1039.8	1036.8
62.5°	964.8	951.8	938.7	932.7	928.7
65°	851.7	841.7	826.7	820.6	817.6
67.5°	736.6	727.6	713.6	706.6	705.6
70°	621.5	612.5	596.5	592.5	591.5
72.5°	506.4	498.4	483.4	479.4	479.4
75°	394.3	387.3	374.3	370.3	370.3
77.5°	288.2	282.2	272.2	267.2	267.2
80°	192.2	188.1	179.1	175.1	174.1
82.5°	111.1	109.1	101.1	97.1	99.1
85°	51.0	49.0	45.0	40.0	41.0
87.5°	13.0	12.0	9.0	7.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)