

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: P973133

Luminaire Tested: FLR2-14-80HE-L835-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973133
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-L835-CP187
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Polycarbonate (0.187" thickness)

Light Source:
Ballast/Driver: -

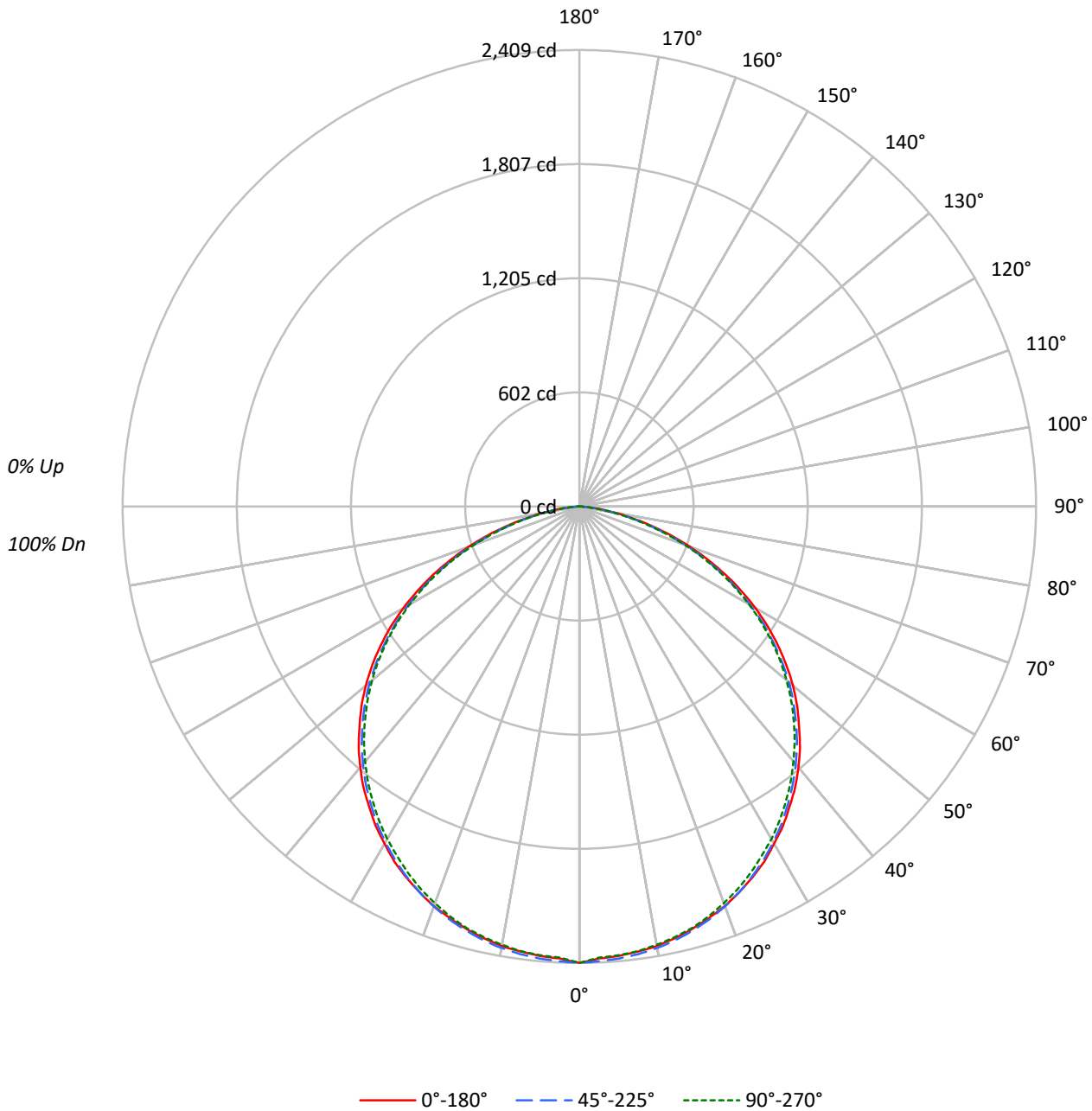
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6742.3 lumens
Efficiency: N/A
Efficacy: 108.9 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	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°	6482	6482	6482
5°	6432	6470	6424
10°	6438	6465	6419
15°	6428	6453	6414
20°	6427	6433	6382
25°	6413	6401	6341
30°	6385	6357	6296
35°	6351	6302	6240
40°	6315	6238	6175
45°	6238	6151	6086
50°	6157	6044	5973
55°	6001	5861	5805
60°	5769	5607	5560
65°	5403	5244	5187
70°	4872	4676	4637
75°	4084	3877	3836
80°	2966	2766	2689
85°	1572	1386	1263

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6238 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.2	3.4
10°-20°	655.3	9.7
20°-30°	995.5	14.8
30°-40°	1204.2	17.9
40°-50°	1251.5	18.6
50°-60°	1120.5	16.6
60°-70°	817.3	12.1
70°-80°	402.5	6.0
80°-90°	67.3	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°	1878.9	27.9
0°-40°	3083.1	45.7
0°-60°	5455.2	80.9
0°-90°	6742.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6742.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2409	2409	2409	2409	2409	
5°	2381	2407	2395	2418	2378	227
15°	2307	2328	2316	2336	2302	652
25°	2160	2171	2156	2166	2136	996
35°	1933	1937	1918	1926	1899	1211
45°	1639	1637	1616	1619	1599	1266
55°	1279	1268	1249	1246	1237	1142
65°	848	838	824	818	815	838
75°	393	386	373	369	369	419
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°	2408.9	2408.9	2408.9	2408.9	2408.9
2.5°	2388.0	2414.9	2402.0	2425.9	2383.0
5°	2381.0	2406.9	2395.0	2417.9	2378.0
7.5°	2369.1	2396.0	2383.0	2404.9	2367.1
10°	2356.1	2380.0	2366.1	2388.0	2349.1
12.5°	2333.2	2357.1	2344.1	2364.1	2328.2
15°	2307.2	2328.2	2316.2	2336.1	2302.2
17.5°	2277.3	2297.3	2284.3	2302.2	2268.3
20°	2244.4	2260.4	2246.4	2261.4	2228.5
22.5°	2203.5	2218.5	2203.5	2213.5	2184.6
25°	2159.7	2170.6	2155.7	2165.6	2135.7
27.5°	2112.8	2118.8	2103.8	2111.8	2080.9
30°	2055.0	2062.0	2046.0	2056.0	2026.1
32.5°	1999.1	2003.1	1985.2	1993.2	1966.2
35°	1933.3	1937.3	1918.4	1926.4	1899.4
37.5°	1870.5	1869.5	1849.6	1854.6	1831.6
40°	1797.7	1796.7	1775.8	1779.8	1757.8
42.5°	1722.9	1719.0	1699.0	1701.0	1681.1
45°	1639.2	1637.2	1616.3	1619.3	1599.3
47.5°	1558.4	1552.4	1531.5	1532.5	1515.6
50°	1470.7	1461.7	1443.8	1441.8	1426.8
52.5°	1377.0	1367.0	1347.1	1345.1	1334.1
55°	1279.2	1268.3	1249.3	1246.3	1237.4
57.5°	1178.5	1164.6	1149.6	1143.6	1136.7
60°	1071.9	1058.9	1041.9	1036.0	1033.0
62.5°	961.2	948.2	935.3	929.3	925.3
65°	848.5	838.5	823.6	817.6	814.6
67.5°	733.8	724.9	710.9	703.9	702.9
70°	619.2	610.2	594.3	590.3	589.3
72.5°	504.5	496.5	481.6	477.6	477.6
75°	392.8	385.9	372.9	368.9	368.9
77.5°	287.2	281.2	271.2	266.2	266.2
80°	191.4	187.5	178.5	174.5	173.5
82.5°	110.7	108.7	100.7	96.7	98.7
85°	50.9	48.9	44.9	39.9	40.9
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)