

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: P973148

Luminaire Tested: FLR2-14-80HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973148
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-CA080
Description: 1*4 FLR-2.0 8000 Lumen High Efficacy at 3500CCT & 80CRI with Clear Aryalic (0.080" thickness)

Light Source:
Ballast/Driver: -

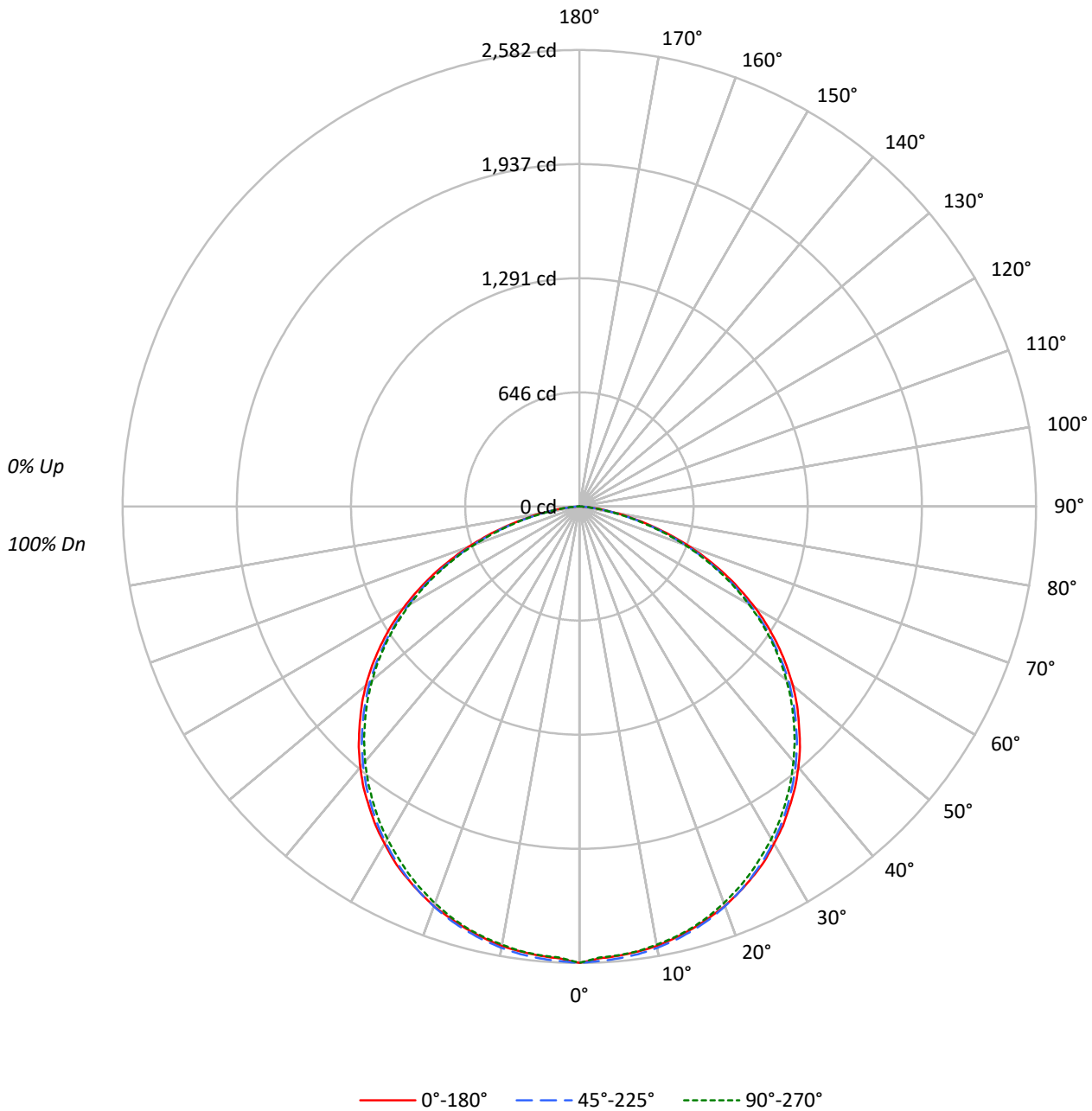
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7225.2 lumens
Efficiency: N/A
Efficacy: 116.7 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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CATALOG NUMBER: FLR2-14-80HE-L835-CA080

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	0
RW	70	50	30	10	70	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°	6947	6947	6947
5°	6893	6933	6884
10°	6899	6929	6879
15°	6888	6915	6873
20°	6888	6894	6839
25°	6872	6859	6796
30°	6843	6813	6747
35°	6806	6753	6687
40°	6767	6685	6617
45°	6685	6591	6522
50°	6598	6477	6401
55°	6432	6281	6221
60°	6182	6009	5958
65°	5790	5620	5559
70°	5220	5010	4969
75°	4377	4155	4110
80°	3180	2965	2881
85°	1683	1485	1352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 6685 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.5	3.4
10°-20°	702.2	9.7
20°-30°	1066.8	14.8
30°-40°	1290.5	17.9
40°-50°	1341.2	18.6
50°-60°	1200.8	16.6
60°-70°	875.8	12.1
70°-80°	431.3	6.0
80°-90°	72.1	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°	2013.5	27.9
0°-40°	3304.0	45.7
0°-60°	5846.0	80.9
0°-90°	7225.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7225.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2582	2582	2582	2582	2582	
5°	2552	2579	2566	2591	2548	243
15°	2472	2495	2482	2504	2467	698
25°	2314	2326	2310	2321	2289	1067
35°	2072	2076	2056	2064	2036	1297
45°	1757	1754	1732	1735	1714	1356
55°	1371	1359	1339	1336	1326	1224
65°	909	899	883	876	873	898
75°	421	414	400	395	395	449
85°	54	52	48	43	44	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2581.5	2581.5	2581.5	2581.5	2581.5
2.5°	2559.1	2587.9	2574.0	2599.7	2553.7
5°	2551.6	2579.4	2566.5	2591.1	2548.4
7.5°	2538.8	2567.6	2553.7	2577.2	2536.6
10°	2524.9	2550.5	2535.6	2559.1	2517.4
12.5°	2500.3	2525.9	2512.0	2533.4	2495.0
15°	2472.5	2495.0	2482.1	2503.5	2467.2
17.5°	2440.5	2461.8	2447.9	2467.2	2430.8
20°	2405.2	2422.3	2407.3	2423.4	2388.1
22.5°	2361.4	2377.4	2361.4	2372.1	2341.1
25°	2314.4	2326.1	2310.1	2320.8	2288.7
27.5°	2264.2	2270.6	2254.5	2263.1	2230.0
30°	2202.2	2209.7	2192.6	2203.3	2171.2
32.5°	2142.3	2146.6	2127.4	2135.9	2107.1
35°	2071.8	2076.1	2055.8	2064.3	2035.5
37.5°	2004.5	2003.4	1982.1	1987.4	1962.8
40°	1926.5	1925.4	1903.0	1907.3	1883.8
42.5°	1846.4	1842.1	1820.7	1822.9	1801.5
45°	1756.6	1754.5	1732.0	1735.2	1713.9
47.5°	1670.1	1663.7	1641.2	1642.3	1624.1
50°	1576.0	1566.4	1547.2	1545.1	1529.0
52.5°	1475.6	1464.9	1443.5	1441.4	1429.7
55°	1370.9	1359.1	1338.8	1335.6	1326.0
57.5°	1263.0	1248.0	1232.0	1225.6	1218.1
60°	1148.6	1134.7	1116.6	1110.2	1107.0
62.5°	1030.0	1016.1	1002.3	995.8	991.6
65°	909.3	898.6	882.6	876.2	873.0
67.5°	786.4	776.8	761.8	754.4	753.3
70°	663.5	653.9	636.8	632.6	631.5
72.5°	540.7	532.1	516.1	511.8	511.8
75°	421.0	413.5	399.6	395.3	395.3
77.5°	307.7	301.3	290.6	285.3	285.3
80°	205.2	200.9	191.3	187.0	185.9
82.5°	118.6	116.5	107.9	103.6	105.8
85°	54.5	52.4	48.1	42.7	43.8
87.5°	13.9	12.8	9.6	7.5	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)