

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: P974661

Luminaire Tested: FLR2-24-35HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35HE-L835-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

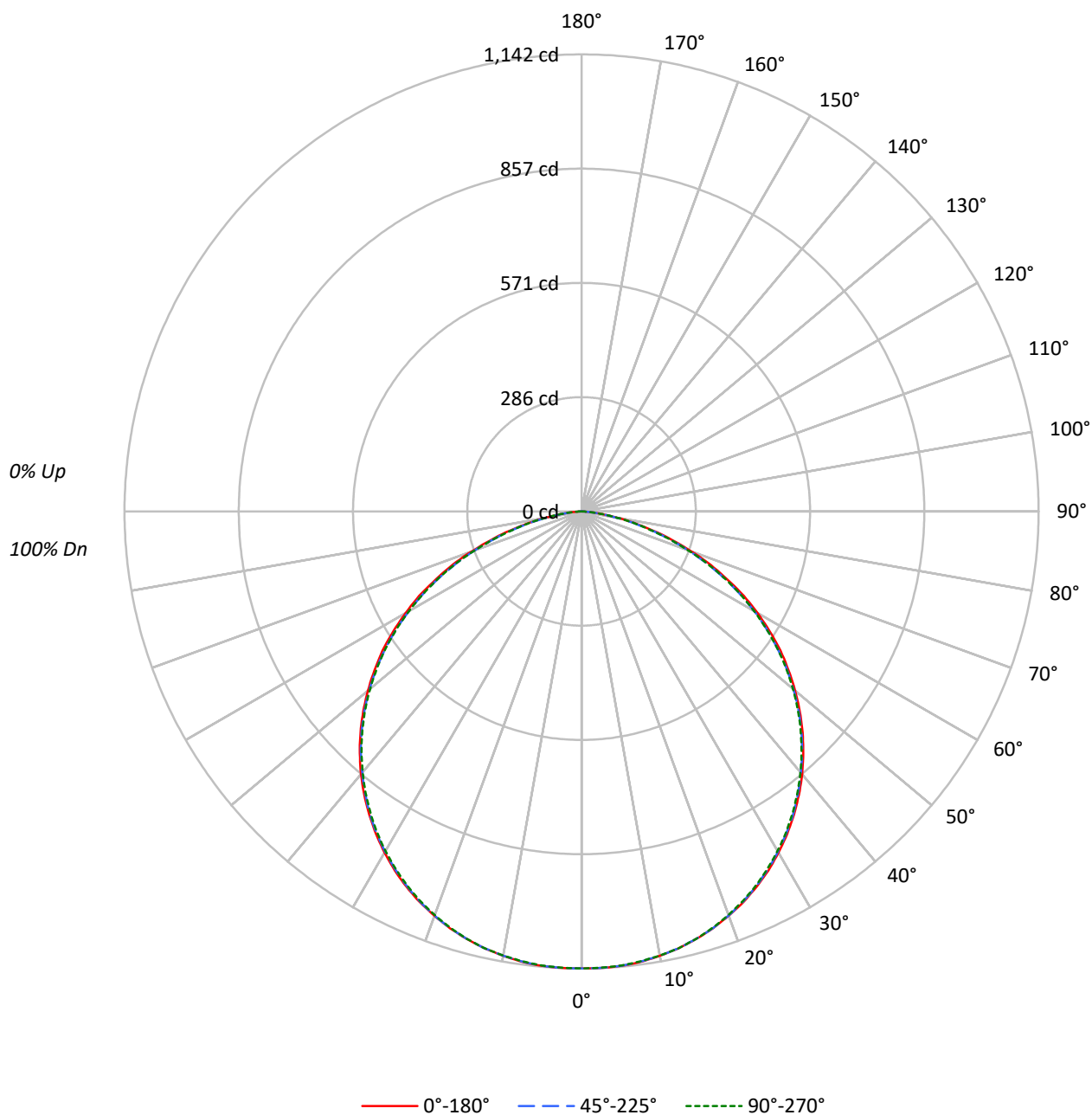
Lumens per Lamp: N/A
Luminaire Lumens: 3227.3 lumens
Efficiency: N/A
Efficacy: 126.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V):
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

TEST NUMBER: P974661

CATALOG NUMBER: FLR2-24-35HE-L835-CP080

Luminous Intensity Polar Plot



TEST NUMBER: P974661

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	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	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
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	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1536	1536	1536
5°	1539	1539	1538
10°	1540	1540	1539
15°	1541	1540	1540
20°	1539	1539	1536
25°	1536	1533	1531
30°	1530	1525	1522
35°	1520	1516	1510
40°	1506	1497	1495
45°	1487	1478	1474
50°	1459	1448	1443
55°	1424	1404	1402
60°	1365	1341	1341
65°	1277	1247	1251
70°	1149	1114	1111
75°	965	926	922
80°	705	669	698
85°	398	367	374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1487 cd/sqm

TEST NUMBER: P974661

CATALOG NUMBER: FLR2-24-35HE-L835-CP080

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	3.4
10°-20°	312.2	9.7
20°-30°	476.1	14.8
30°-40°	576.8	17.9
40°-50°	599.1	18.6
50°-60°	536.0	16.6
60°-70°	390.6	12.1
70°-80°	193.4	6.0
80°-90°	34.6	1.1
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°	896.7	27.8
0°-40°	1473.5	45.7
0°-60°	2608.6	80.8
0°-90°	3227.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3227.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1140	1140	1140	1140	1139	108
15°	1106	1106	1106	1107	1106	312
25°	1035	1034	1033	1032	1031	477
35°	925	924	923	921	919	579
45°	781	780	777	775	774	602
55°	607	603	599	599	598	541
65°	401	398	392	393	393	398
75°	186	183	178	182	177	198
85°	26	24	24	24	24	36
90°	0	0	0	0	0	

TEST NUMBER: P974661

CATALOG NUMBER: FLR2-24-35HE-L835-CP080

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1141.9	1141.9	1141.9	1141.9	1141.9
2.5°	1141.9	1141.5	1141.5	1141.9	1141.1
5°	1139.8	1140.2	1139.8	1139.8	1139.0
7.5°	1135.3	1134.9	1134.5	1134.9	1133.7
10°	1127.5	1127.5	1127.1	1127.5	1126.7
12.5°	1118.1	1118.1	1118.1	1118.5	1118.1
15°	1106.2	1105.8	1105.8	1106.6	1105.8
17.5°	1092.3	1091.9	1091.9	1091.5	1090.7
20°	1075.1	1075.1	1074.7	1074.3	1073.0
22.5°	1056.7	1056.2	1055.0	1055.0	1053.4
25°	1034.9	1033.7	1032.9	1032.5	1031.3
27.5°	1011.2	1009.5	1008.3	1007.5	1006.3
30°	984.5	982.9	981.7	980.4	979.6
32.5°	955.9	955.0	953.0	952.6	950.9
35°	925.1	923.9	922.7	921.0	919.4
37.5°	892.4	891.1	888.3	887.4	886.2
40°	857.5	855.9	852.2	852.2	851.0
42.5°	820.2	818.6	816.2	814.5	813.7
45°	781.3	779.7	776.8	775.2	774.4
47.5°	739.9	738.7	735.4	734.2	733.0
50°	696.9	695.3	691.6	690.8	689.5
52.5°	651.9	651.0	646.1	645.7	644.5
55°	607.2	602.7	598.6	598.6	597.8
57.5°	558.0	554.8	549.4	549.4	548.6
60°	507.2	504.4	498.2	499.0	498.2
62.5°	457.7	451.5	445.8	448.2	446.2
65°	401.1	397.8	391.7	393.3	392.9
67.5°	349.5	343.3	337.6	340.9	339.2
70°	292.1	288.8	283.1	286.4	282.3
72.5°	238.0	235.2	229.4	233.1	229.0
75°	185.6	182.7	178.2	181.5	177.4
77.5°	136.0	134.0	129.9	133.2	134.0
80°	91.0	88.5	86.4	89.3	90.1
82.5°	53.3	51.6	50.8	51.2	53.3
85°	25.8	23.8	23.8	24.2	24.2
87.5°	7.0	6.1	7.0	7.4	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)