

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: P974705

Luminaire Tested: FLR2-24-35HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974705
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-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

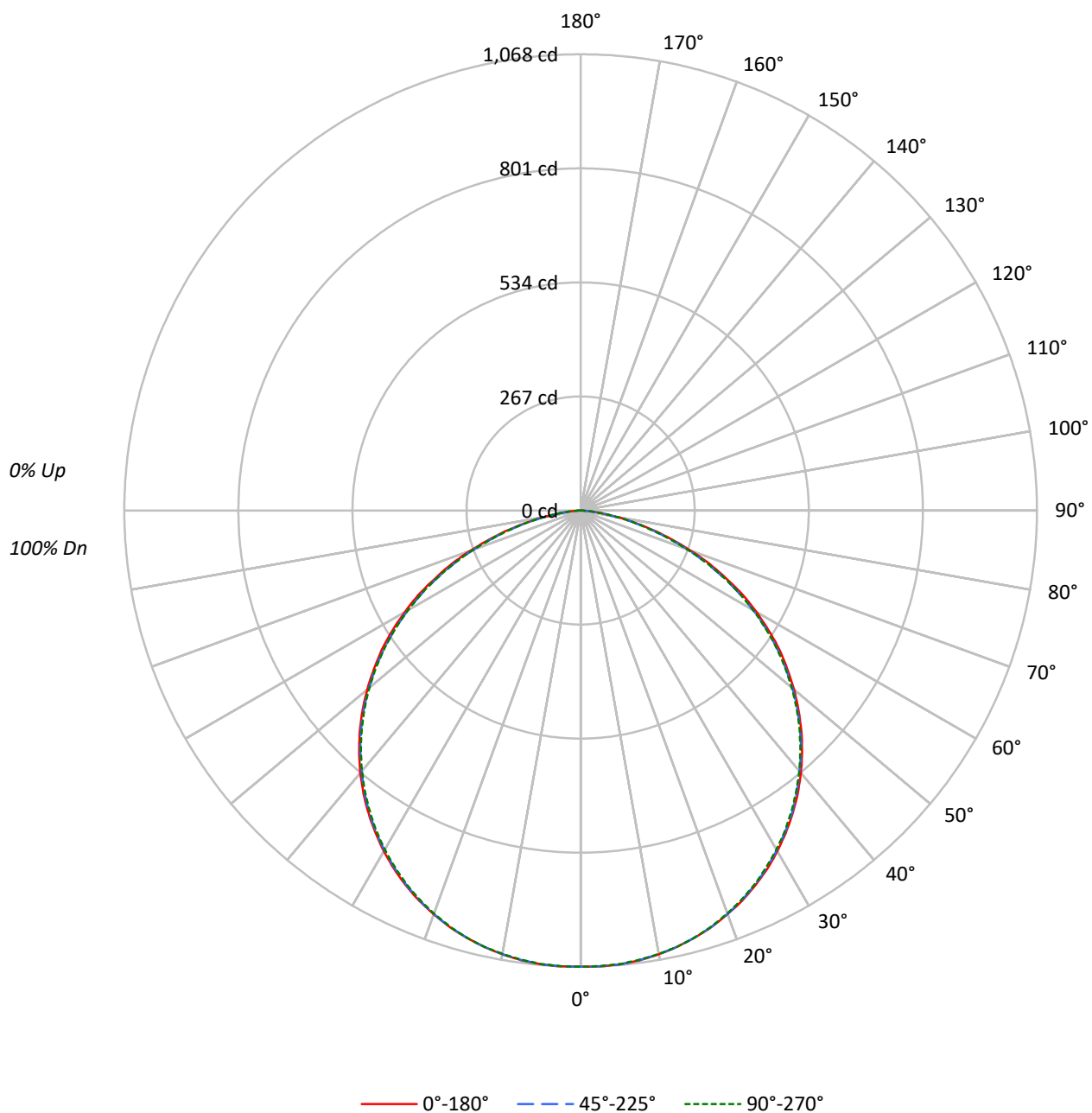
Lumens per Lamp: N/A
Luminaire Lumens: 3019.0 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1437	1437	1437
5°	1440	1440	1439
10°	1441	1441	1440
15°	1442	1441	1441
20°	1440	1439	1437
25°	1437	1435	1432
30°	1431	1427	1424
35°	1421	1418	1413
40°	1409	1400	1398
45°	1391	1383	1378
50°	1365	1354	1350
55°	1332	1314	1312
60°	1277	1254	1254
65°	1195	1167	1170
70°	1075	1042	1039
75°	902	867	863
80°	659	627	653
85°	372	343	349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1391 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.4	3.4
10°-20°	292.1	9.7
20°-30°	445.4	14.8
30°-40°	539.6	17.9
40°-50°	560.5	18.6
50°-60°	501.4	16.6
60°-70°	365.4	12.1
70°-80°	181.0	6.0
80°-90°	32.3	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°	838.9	27.8
0°-40°	1378.4	45.7
0°-60°	2440.3	80.8
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1068	1068	1068	1068	1068	
5°	1066	1067	1066	1066	1066	101
15°	1035	1034	1034	1035	1034	292
25°	968	967	966	966	965	446
35°	865	864	863	862	860	541
45°	731	729	727	725	724	563
55°	568	564	560	560	559	506
65°	375	372	366	368	368	372
75°	174	171	167	170	166	185
85°	24	22	22	23	23	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1068.2	1068.2	1068.2	1068.2	1068.2
2.5°	1068.2	1067.8	1067.8	1068.2	1067.4
5°	1066.3	1066.7	1066.3	1066.3	1065.5
7.5°	1062.1	1061.7	1061.3	1061.7	1060.5
10°	1054.8	1054.8	1054.4	1054.8	1054.0
12.5°	1046.0	1046.0	1046.0	1046.4	1046.0
15°	1034.9	1034.5	1034.5	1035.2	1034.5
17.5°	1021.8	1021.4	1021.4	1021.1	1020.3
20°	1005.7	1005.7	1005.3	1005.0	1003.8
22.5°	988.5	988.1	986.9	986.9	985.4
25°	968.2	967.0	966.3	965.9	964.7
27.5°	945.9	944.4	943.3	942.5	941.3
30°	921.0	919.5	918.3	917.2	916.4
32.5°	894.2	893.4	891.5	891.1	889.6
35°	865.4	864.3	863.1	861.6	860.1
37.5°	834.8	833.6	831.0	830.2	829.0
40°	802.2	800.7	797.2	797.2	796.1
42.5°	767.3	765.8	763.5	762.0	761.2
45°	730.9	729.4	726.7	725.2	724.4
47.5°	692.2	691.1	688.0	686.8	685.7
50°	652.0	650.4	647.0	646.2	645.1
52.5°	609.8	609.0	604.4	604.1	602.9
55°	568.0	563.8	560.0	560.0	559.2
57.5°	522.0	519.0	514.0	514.0	513.2
60°	474.5	471.8	466.1	466.8	466.1
62.5°	428.1	422.4	417.0	419.3	417.4
65°	375.2	372.2	366.4	367.9	367.6
67.5°	326.9	321.2	315.8	318.9	317.4
70°	273.3	270.2	264.8	267.9	264.1
72.5°	222.7	220.0	214.6	218.1	214.3
75°	173.6	170.9	166.7	169.8	166.0
77.5°	127.2	125.3	121.5	124.6	125.3
80°	85.1	82.8	80.9	83.6	84.3
82.5°	49.8	48.3	47.5	47.9	49.8
85°	24.1	22.2	22.2	22.6	22.6
87.5°	6.5	5.7	6.5	6.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)