

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: P974783

Luminaire Tested: FLR2-24-40HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974783
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: FLR2-24-40HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

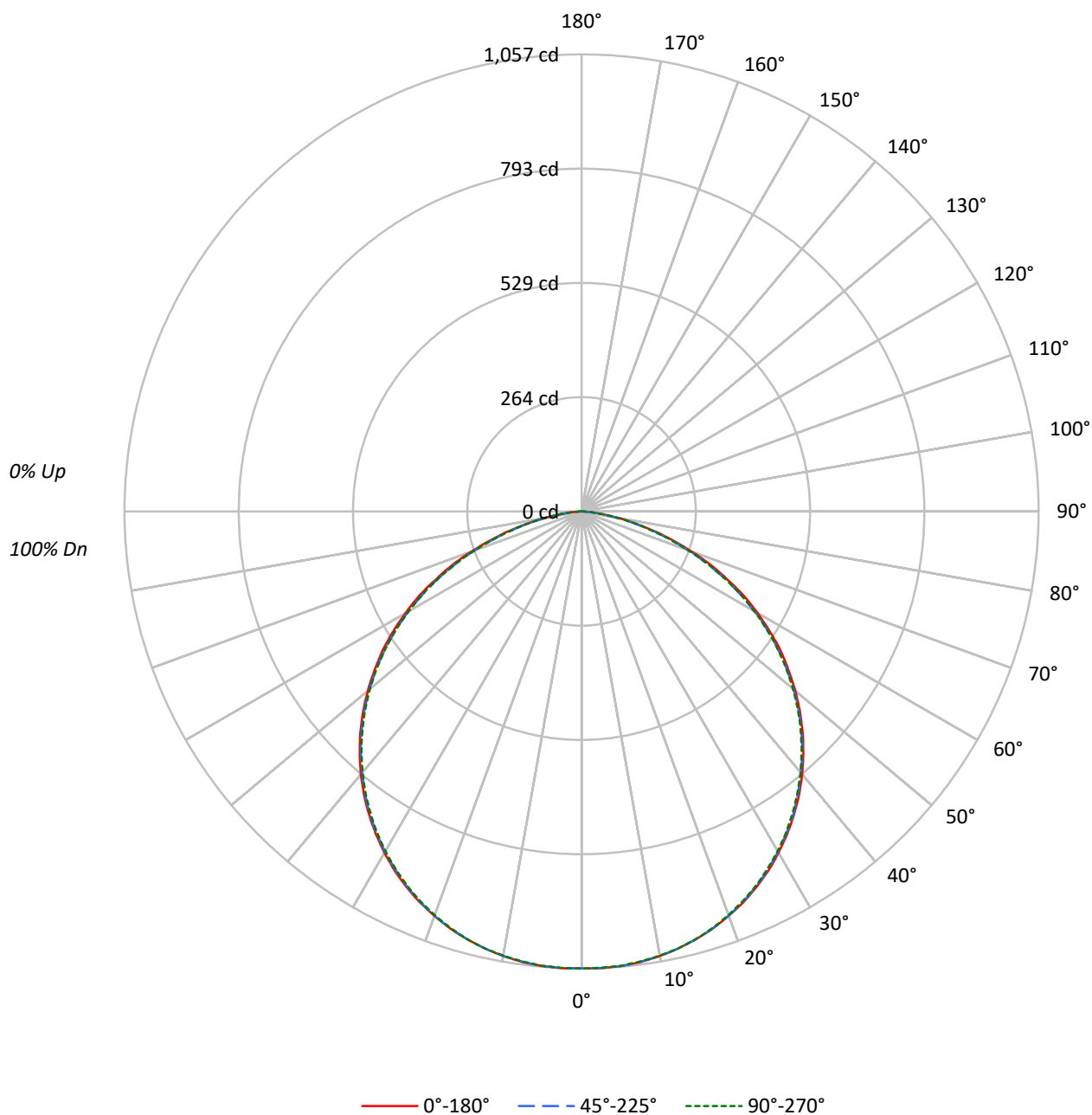
Lumens per Lamp: N/A
Luminaire Lumens: 2987.8 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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°	1422	1422	1422
5°	1425	1425	1424
10°	1426	1426	1425
15°	1427	1426	1426
20°	1425	1425	1422
25°	1423	1420	1417
30°	1416	1412	1409
35°	1407	1403	1398
40°	1394	1386	1384
45°	1376	1369	1364
50°	1351	1340	1336
55°	1319	1300	1298
60°	1264	1241	1241
65°	1182	1154	1158
70°	1064	1031	1028
75°	893	858	854
80°	652	620	647
85°	369	340	346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1376 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.3	3.4
10°-20°	289.1	9.7
20°-30°	440.8	14.8
30°-40°	534.0	17.9
40°-50°	554.7	18.6
50°-60°	496.2	16.6
60°-70°	361.7	12.1
70°-80°	179.1	6.0
80°-90°	32.0	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°	830.2	27.8
0°-40°	1364.2	45.7
0°-60°	2415.1	80.8
0°-90°	2987.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2987.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1055	1056	1055	1055	1054	100
15°	1024	1024	1024	1024	1024	289
25°	958	957	956	956	955	442
35°	856	855	854	853	851	536
45°	723	722	719	718	717	557
55°	562	558	554	554	553	501
65°	371	368	363	364	364	368
75°	172	169	165	168	164	183
85°	24	22	22	22	22	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.2	1057.2	1057.2	1057.2	1057.2
2.5°	1057.2	1056.8	1056.8	1057.2	1056.4
5°	1055.3	1055.6	1055.3	1055.3	1054.5
7.5°	1051.1	1050.7	1050.3	1050.7	1049.6
10°	1043.9	1043.9	1043.5	1043.9	1043.1
12.5°	1035.2	1035.2	1035.2	1035.5	1035.2
15°	1024.2	1023.8	1023.8	1024.5	1023.8
17.5°	1011.3	1010.9	1010.9	1010.5	1009.7
20°	995.3	995.3	995.0	994.6	993.4
22.5°	978.3	977.9	976.7	976.7	975.2
25°	958.2	957.0	956.3	955.9	954.7
27.5°	936.2	934.6	933.5	932.7	931.6
30°	911.5	910.0	908.8	907.7	907.0
32.5°	885.0	884.2	882.3	881.9	880.4
35°	856.5	855.4	854.2	852.7	851.2
37.5°	826.2	825.0	822.4	821.6	820.5
40°	793.9	792.4	789.0	789.0	787.8
42.5°	759.4	757.9	755.6	754.1	753.3
45°	723.4	721.8	719.2	717.7	716.9
47.5°	685.1	683.9	680.9	679.7	678.6
50°	645.2	643.7	640.3	639.5	638.4
52.5°	603.5	602.7	598.2	597.8	596.7
55°	562.2	558.0	554.2	554.2	553.4
57.5°	516.6	513.6	508.7	508.7	507.9
60°	469.6	466.9	461.3	462.0	461.3
62.5°	423.7	418.0	412.7	415.0	413.1
65°	371.4	368.3	362.6	364.1	363.8
67.5°	323.6	317.9	312.6	315.6	314.1
70°	270.5	267.4	262.1	265.1	261.4
72.5°	220.4	217.7	212.4	215.8	212.0
75°	171.8	169.2	165.0	168.0	164.2
77.5°	125.9	124.0	120.2	123.3	124.0
80°	84.2	81.9	80.0	82.7	83.5
82.5°	49.3	47.8	47.0	47.4	49.3
85°	23.9	22.0	22.0	22.4	22.4
87.5°	6.4	5.7	6.4	6.8	7.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)