

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: P974629

Luminaire Tested: FLR2-24-40HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974629
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-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

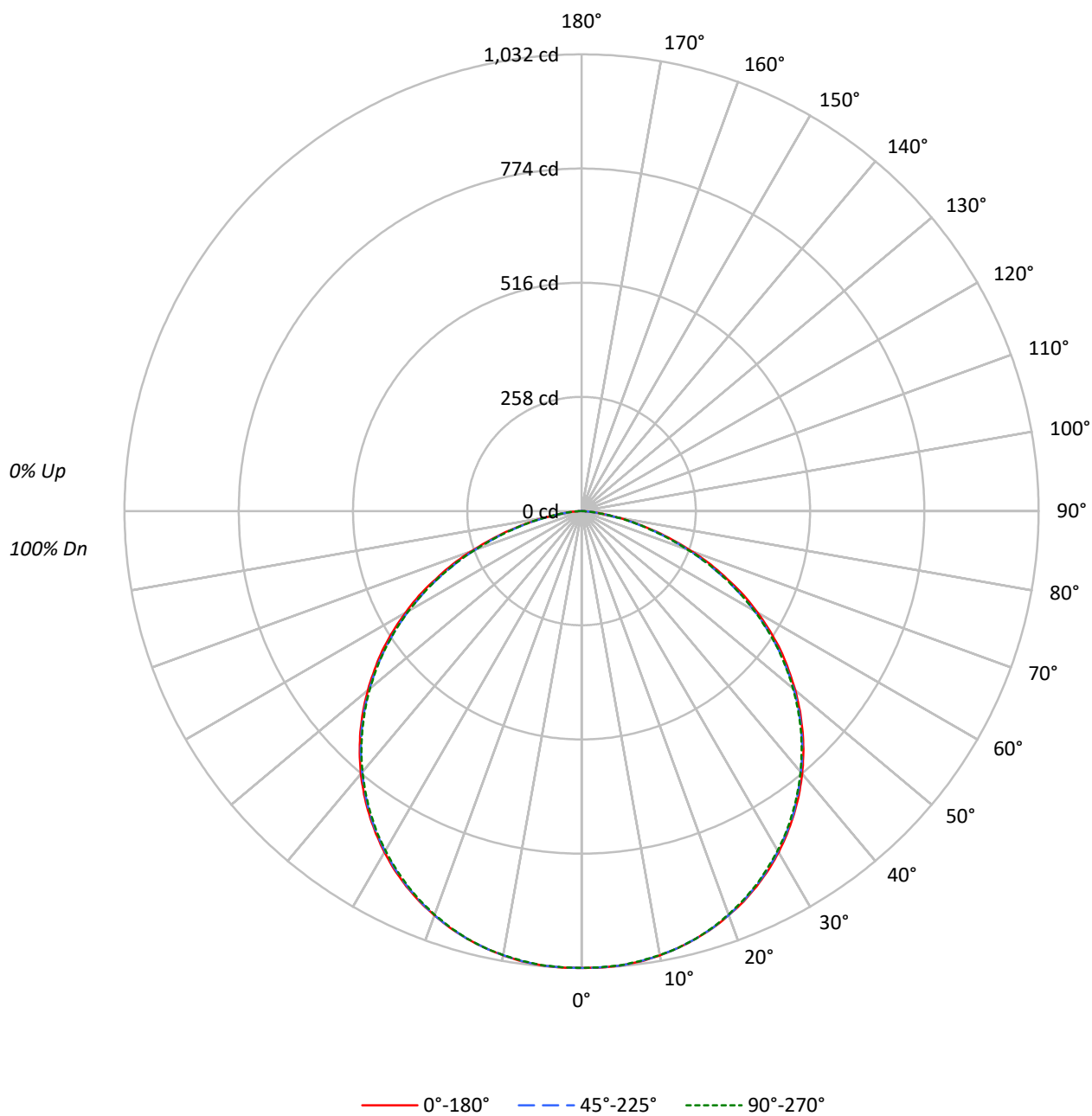
Lumens per Lamp: N/A
Luminaire Lumens: 2917.6 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1389	1389	1389
5°	1392	1392	1391
10°	1393	1392	1392
15°	1393	1393	1393
20°	1392	1391	1389
25°	1389	1386	1384
30°	1383	1379	1376
35°	1374	1370	1365
40°	1362	1353	1351
45°	1344	1336	1332
50°	1319	1309	1305
55°	1288	1269	1268
60°	1234	1212	1212
65°	1154	1127	1131
70°	1039	1007	1004
75°	872	837	834
80°	637	606	631
85°	360	332	338

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1344 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	3.4
10°-20°	282.3	9.7
20°-30°	430.4	14.8
30°-40°	521.4	17.9
40°-50°	541.6	18.6
50°-60°	484.5	16.6
60°-70°	353.1	12.1
70°-80°	174.9	6.0
80°-90°	31.3	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°	810.7	27.8
0°-40°	1332.1	45.7
0°-60°	2358.3	80.8
0°-90°	2917.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2917.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1030	1031	1030	1030	1030	98
15°	1000	1000	1000	1000	1000	282
25°	936	934	934	933	932	431
35°	836	835	834	833	831	523
45°	706	705	702	701	700	544
55°	549	545	541	541	540	489
65°	363	360	354	356	355	359
75°	168	165	161	164	160	179
85°	23	22	22	22	22	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.3	1032.3	1032.3	1032.3	1032.3
2.5°	1032.3	1031.9	1031.9	1032.3	1031.5
5°	1030.4	1030.8	1030.4	1030.4	1029.7
7.5°	1026.4	1026.0	1025.6	1026.0	1024.9
10°	1019.3	1019.3	1019.0	1019.3	1018.6
12.5°	1010.8	1010.8	1010.8	1011.2	1010.8
15°	1000.1	999.7	999.7	1000.4	999.7
17.5°	987.5	987.1	987.1	986.7	986.0
20°	971.9	971.9	971.5	971.2	970.1
22.5°	955.2	954.9	953.8	953.8	952.3
25°	935.6	934.5	933.8	933.4	932.3
27.5°	914.1	912.7	911.5	910.8	909.7
30°	890.1	888.6	887.5	886.4	885.6
32.5°	864.1	863.4	861.5	861.2	859.7
35°	836.3	835.2	834.1	832.6	831.2
37.5°	806.7	805.6	803.0	802.3	801.2
40°	775.2	773.8	770.4	770.4	769.3
42.5°	741.5	740.0	737.8	736.3	735.6
45°	706.3	704.9	702.3	700.8	700.0
47.5°	668.9	667.8	664.9	663.7	662.6
50°	630.0	628.6	625.2	624.5	623.4
52.5°	589.3	588.6	584.1	583.7	582.6
55°	548.9	544.8	541.1	541.1	540.4
57.5°	504.5	501.5	496.7	496.7	496.0
60°	458.5	456.0	450.4	451.1	450.4
62.5°	413.7	408.2	403.0	405.2	403.4
65°	362.6	359.7	354.1	355.6	355.2
67.5°	315.9	310.4	305.2	308.2	306.7
70°	264.1	261.1	255.9	258.9	255.2
72.5°	215.2	212.6	207.4	210.8	207.1
75°	167.8	165.2	161.1	164.1	160.4
77.5°	123.0	121.1	117.4	120.4	121.1
80°	82.2	80.0	78.2	80.7	81.5
82.5°	48.2	46.7	45.9	46.3	48.2
85°	23.3	21.5	21.5	21.9	21.9
87.5°	6.3	5.6	6.3	6.7	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)