

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: P974947

Luminaire Tested: FLR2-24-35HE-L940-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974947
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-L940-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

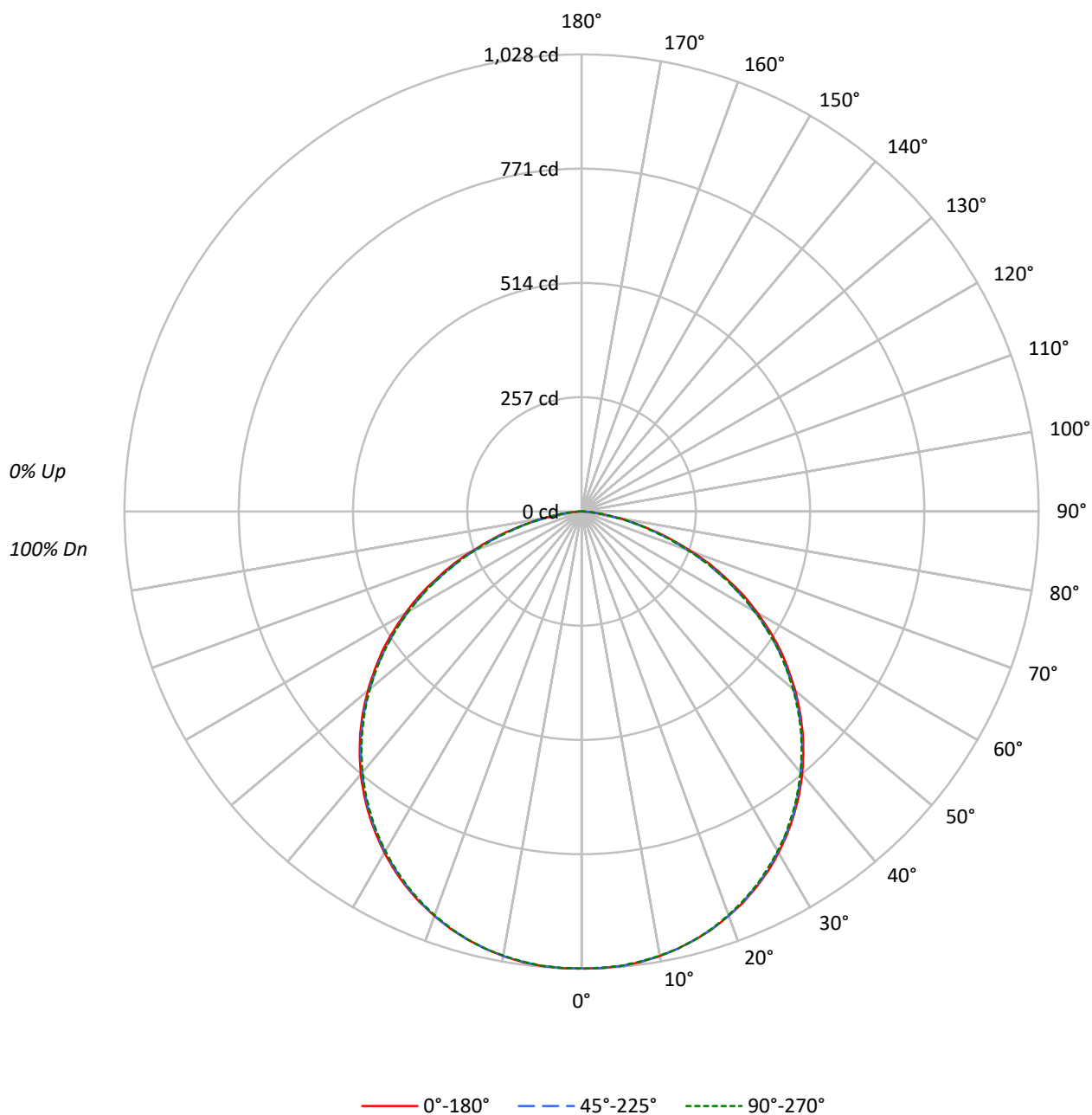
Lumens per Lamp: N/A
Luminaire Lumens: 2906.0 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1383	1383	1383
5°	1386	1386	1385
10°	1387	1387	1386
15°	1388	1387	1387
20°	1386	1386	1383
25°	1383	1381	1379
30°	1377	1373	1370
35°	1368	1365	1360
40°	1356	1348	1346
45°	1339	1331	1327
50°	1313	1303	1300
55°	1282	1264	1263
60°	1229	1207	1207
65°	1150	1123	1126
70°	1035	1003	1000
75°	869	834	830
80°	635	603	629
85°	358	330	337

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1339 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.6	3.4
10°-20°	281.2	9.7
20°-30°	428.7	14.8
30°-40°	519.4	17.9
40°-50°	539.5	18.6
50°-60°	482.6	16.6
60°-70°	351.7	12.1
70°-80°	174.2	6.0
80°-90°	31.1	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°	807.4	27.8
0°-40°	1326.8	45.7
0°-60°	2348.9	80.8
0°-90°	2906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2906.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1026	1027	1026	1026	1026	98
15°	996	996	996	996	996	281
25°	932	931	930	930	929	429
35°	833	832	831	829	828	521
45°	704	702	700	698	697	542
55°	547	543	539	539	538	487
65°	361	358	353	354	354	358
75°	167	164	160	163	160	178
85°	23	21	21	22	22	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1028.2	1028.2	1028.2	1028.2	1028.2
2.5°	1028.2	1027.8	1027.8	1028.2	1027.4
5°	1026.3	1026.7	1026.3	1026.3	1025.6
7.5°	1022.3	1021.9	1021.5	1021.9	1020.8
10°	1015.3	1015.3	1014.9	1015.3	1014.5
12.5°	1006.8	1006.8	1006.8	1007.2	1006.8
15°	996.1	995.7	995.7	996.5	995.7
17.5°	983.5	983.2	983.2	982.8	982.1
20°	968.0	968.0	967.7	967.3	966.2
22.5°	951.4	951.1	950.0	950.0	948.5
25°	931.9	930.8	930.0	929.7	928.6
27.5°	910.5	909.0	907.9	907.2	906.1
30°	886.5	885.0	883.9	882.8	882.1
32.5°	860.7	860.0	858.1	857.7	856.3
35°	833.0	831.9	830.8	829.3	827.9
37.5°	803.5	802.4	799.8	799.1	798.0
40°	772.2	770.7	767.4	767.4	766.2
42.5°	738.6	737.1	734.9	733.4	732.7
45°	703.5	702.1	699.5	698.0	697.3
47.5°	666.3	665.2	662.2	661.1	660.0
50°	627.5	626.1	622.7	622.0	620.9
52.5°	587.0	586.2	581.8	581.4	580.3
55°	546.7	542.7	539.0	539.0	538.3
57.5°	502.5	499.5	494.7	494.7	494.0
60°	456.7	454.1	448.6	449.3	448.6
62.5°	412.1	406.6	401.4	403.6	401.8
65°	361.2	358.2	352.7	354.2	353.8
67.5°	314.7	309.2	304.0	306.9	305.5
70°	263.0	260.1	254.9	257.9	254.2
72.5°	214.3	211.8	206.6	209.9	206.2
75°	167.1	164.5	160.5	163.4	159.7
77.5°	122.5	120.6	116.9	119.9	120.6
80°	81.9	79.7	77.8	80.4	81.2
82.5°	48.0	46.5	45.7	46.1	48.0
85°	23.2	21.4	21.4	21.8	21.8
87.5°	6.3	5.5	6.3	6.6	7.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)