

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: P974892

Luminaire Tested: FLR2-24-35HE-L940-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974892
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

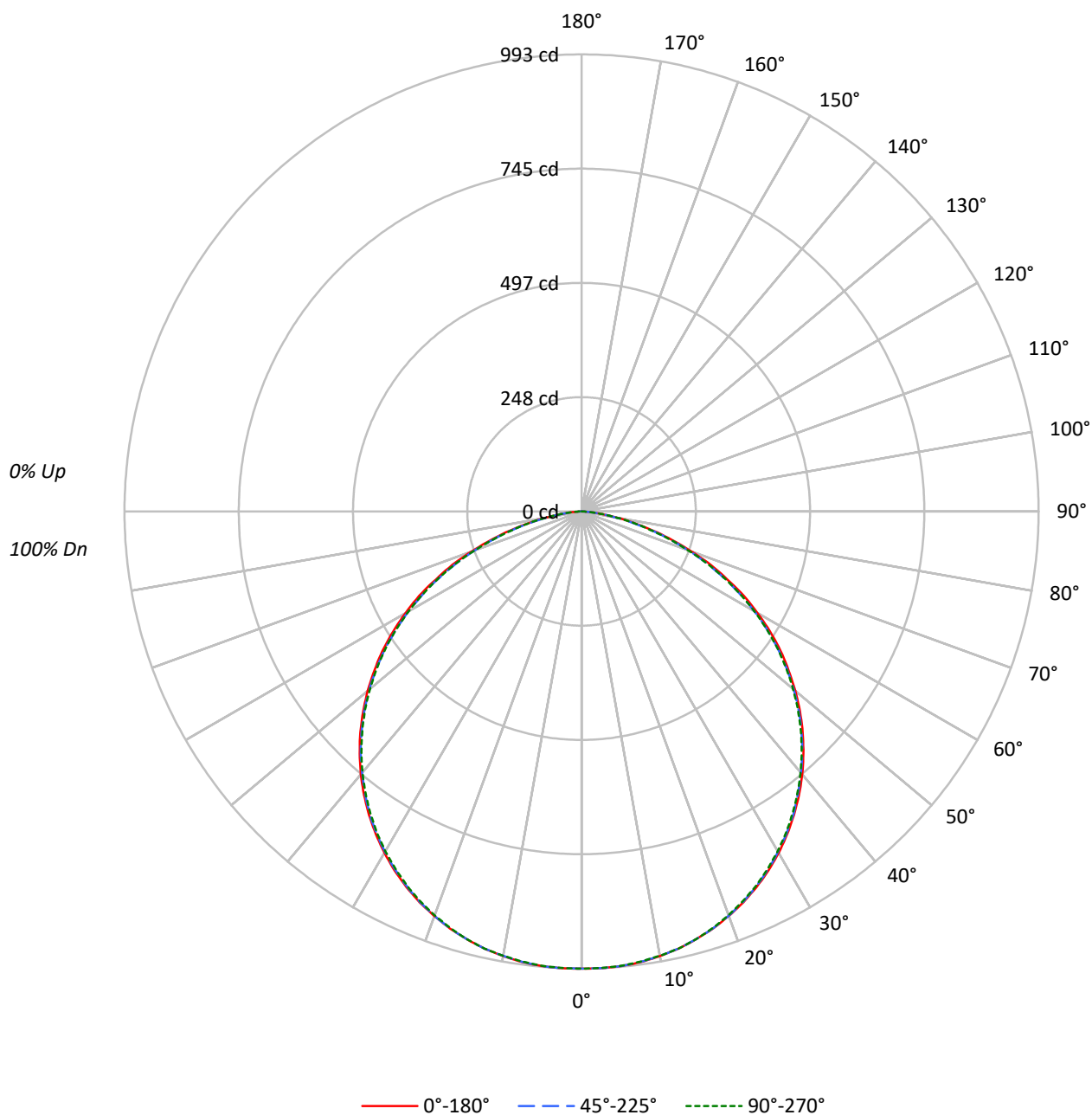
Lumens per Lamp: N/A
Luminaire Lumens: 2807.7 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1337	1337	1337
5°	1339	1339	1338
10°	1340	1340	1339
15°	1341	1340	1340
20°	1339	1339	1337
25°	1337	1334	1332
30°	1331	1327	1324
35°	1322	1318	1314
40°	1310	1302	1300
45°	1294	1286	1282
50°	1269	1259	1256
55°	1239	1222	1220
60°	1188	1166	1166
65°	1111	1085	1088
70°	1000	969	966
75°	840	806	802
80°	613	583	607
85°	347	320	324

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1294 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	3.4
10°-20°	271.7	9.7
20°-30°	414.2	14.8
30°-40°	501.8	17.9
40°-50°	521.3	18.6
50°-60°	466.3	16.6
60°-70°	339.9	12.1
70°-80°	168.3	6.0
80°-90°	30.1	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°	780.1	27.8
0°-40°	1282.0	45.7
0°-60°	2269.5	80.8
0°-90°	2807.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	993	993	993	993	993	
5°	992	992	992	992	991	94
15°	962	962	962	963	962	272
25°	900	899	899	898	897	415
35°	805	804	803	801	800	503
45°	680	678	676	674	674	524
55°	528	524	521	521	520	471
65°	349	346	341	342	342	346
75°	162	159	155	158	154	172
85°	22	21	21	21	21	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.4	993.4	993.4	993.4	993.4
2.5°	993.4	993.1	993.1	993.4	992.7
5°	991.6	992.0	991.6	991.6	990.9
7.5°	987.7	987.4	987.0	987.4	986.3
10°	981.0	981.0	980.6	981.0	980.2
12.5°	972.8	972.8	972.8	973.1	972.8
15°	962.4	962.1	962.1	962.8	962.1
17.5°	950.3	949.9	949.9	949.6	948.9
20°	935.3	935.3	935.0	934.6	933.5
22.5°	919.3	918.9	917.9	917.9	916.4
25°	900.4	899.3	898.6	898.3	897.2
27.5°	879.7	878.3	877.2	876.5	875.4
30°	856.6	855.1	854.1	853.0	852.3
32.5°	831.6	830.9	829.1	828.7	827.3
35°	804.9	803.8	802.7	801.3	799.9
37.5°	776.4	775.3	772.8	772.1	771.0
40°	746.1	744.6	741.4	741.4	740.3
42.5°	713.6	712.2	710.1	708.6	707.9
45°	679.8	678.3	675.8	674.4	673.7
47.5°	643.8	642.7	639.8	638.8	637.7
50°	606.3	604.9	601.7	601.0	599.9
52.5°	567.1	566.4	562.1	561.8	560.7
55°	528.3	524.3	520.8	520.8	520.1
57.5°	485.5	482.6	478.0	478.0	477.3
60°	441.3	438.8	433.4	434.2	433.4
62.5°	398.2	392.8	387.8	390.0	388.2
65°	349.0	346.1	340.8	342.2	341.8
67.5°	304.1	298.7	293.7	296.6	295.1
70°	254.1	251.3	246.3	249.2	245.6
72.5°	207.1	204.6	199.6	202.8	199.3
75°	161.5	159.0	155.1	157.9	154.3
77.5°	118.3	116.6	113.0	115.8	116.6
80°	79.1	77.0	75.2	77.7	78.4
82.5°	46.3	44.9	44.2	44.6	46.3
85°	22.5	20.7	20.7	21.0	21.0
87.5°	6.1	5.3	6.1	6.4	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)