

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: P973875

Luminaire Tested: FLR2-22-50HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-50HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

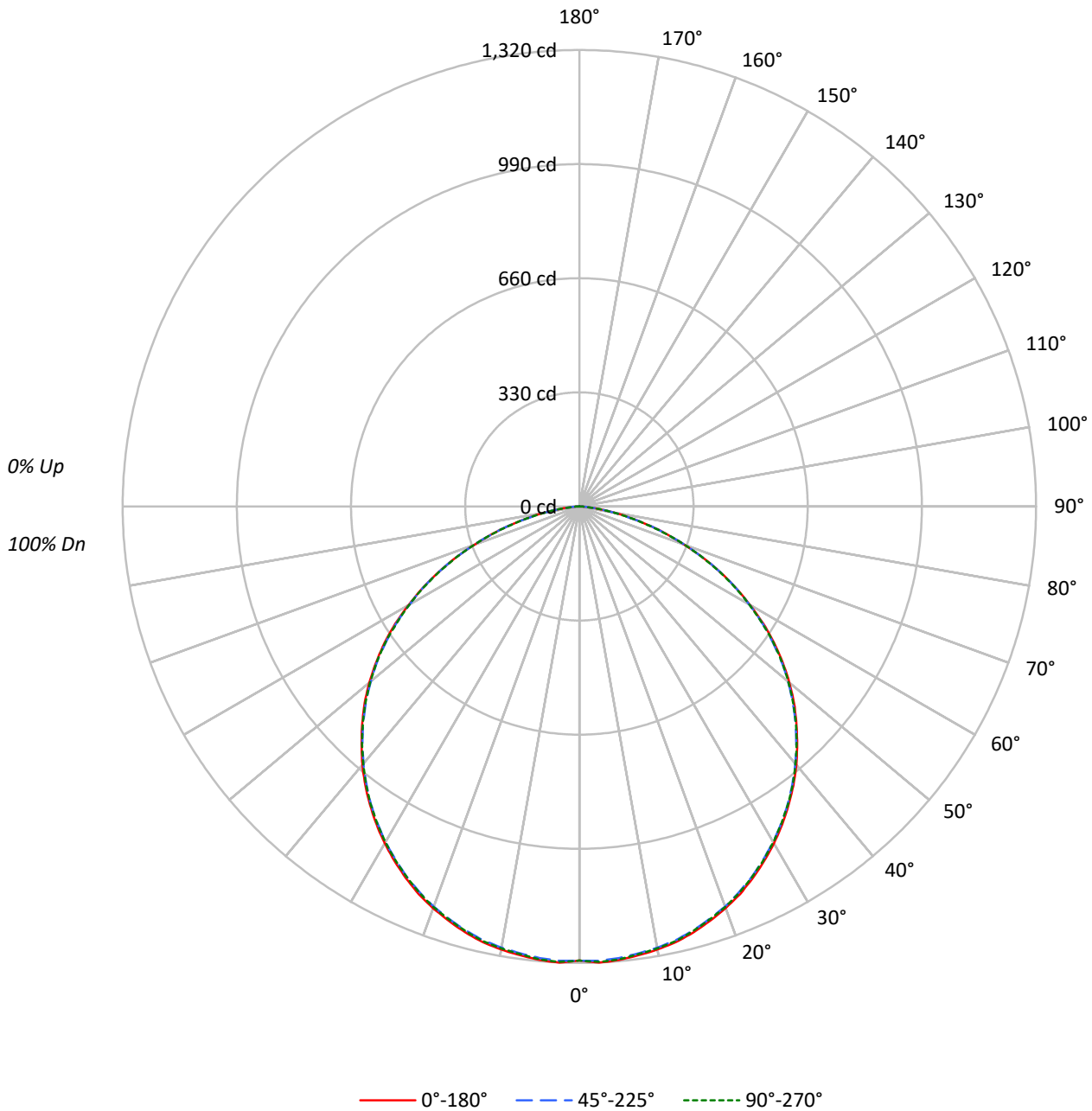
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3672.5 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): 120
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										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	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	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3534	3534	3534
5°	3556	3541	3552
10°	3555	3540	3546
15°	3552	3536	3541
20°	3540	3526	3531
25°	3521	3507	3509
30°	3496	3481	3483
35°	3464	3451	3453
40°	3428	3411	3413
45°	3377	3362	3368
50°	3318	3294	3301
55°	3223	3197	3208
60°	3064	3052	3052
65°	2862	2856	2846
70°	2533	2546	2540
75°	2133	2117	2100
80°	1534	1508	1495
85°	803	803	775

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3377 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.4
10°-20°	357.6	9.7
20°-30°	543.4	14.8
30°-40°	656.9	17.9
40°-50°	681.8	18.6
50°-60°	609.5	16.6
60°-70°	443.2	12.1
70°-80°	217.9	5.9
80°-90°	37.8	1.0
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°	1025.4	27.9
0°-40°	1682.3	45.8
0°-60°	2973.6	81.0
0°-90°	3672.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3672.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1313	1313	1313	1313	1313	
5°	1316	1301	1311	1306	1315	125
15°	1275	1260	1269	1266	1271	360
25°	1186	1173	1181	1179	1182	547
35°	1054	1047	1050	1051	1051	660
45°	887	883	883	885	885	685
55°	687	683	681	683	684	612
65°	449	451	449	449	447	443
75°	205	207	204	204	202	218
85°	26	27	26	26	25	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1313.2	1313.2	1313.2	1313.2	1313.2
2.5°	1320.5	1305.1	1314.9	1309.2	1318.1
5°	1316.5	1301.1	1310.8	1305.9	1314.9
7.5°	1309.2	1293.8	1303.5	1298.6	1305.9
10°	1301.1	1284.8	1295.4	1290.5	1297.8
12.5°	1290.5	1275.1	1284.8	1280.8	1287.3
15°	1275.1	1260.5	1269.4	1266.2	1271.1
17.5°	1256.5	1241.8	1250.8	1248.3	1252.4
20°	1236.2	1222.4	1231.3	1228.9	1232.9
22.5°	1213.5	1198.9	1207.0	1205.3	1208.6
25°	1185.9	1172.9	1181.0	1178.6	1181.8
27.5°	1156.7	1144.5	1151.0	1151.0	1152.6
30°	1125.0	1113.7	1120.2	1120.2	1121.0
32.5°	1091.0	1082.1	1086.1	1086.9	1086.9
35°	1054.5	1047.2	1050.4	1051.2	1051.2
37.5°	1016.4	1009.1	1011.5	1013.1	1013.1
40°	975.8	969.3	970.9	972.6	971.7
42.5°	932.0	927.1	927.9	929.6	929.6
45°	887.4	883.3	883.3	884.9	884.9
47.5°	842.0	837.9	836.3	837.9	837.9
50°	792.5	788.4	786.8	788.4	788.4
52.5°	740.6	736.5	736.5	736.5	737.3
55°	687.0	683.0	681.4	683.0	683.8
57.5°	630.3	628.6	626.2	627.0	624.6
60°	569.4	569.4	567.0	568.6	567.0
62.5°	510.2	511.8	509.4	509.4	507.8
65°	449.4	451.0	448.6	448.6	446.9
67.5°	386.9	389.3	386.1	386.1	384.5
70°	322.0	326.9	323.6	324.5	322.8
72.5°	263.6	266.1	262.8	262.8	261.2
75°	205.2	206.8	203.6	204.4	202.0
77.5°	147.6	150.1	146.8	147.6	146.8
80°	99.0	99.8	97.3	98.1	96.5
82.5°	57.6	58.4	57.6	56.8	56.0
85°	26.0	26.8	26.0	26.0	25.1
87.5°	6.5	6.5	6.5	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)