

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: P973856

Luminaire Tested: FLR2-22-45HE-L935-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973856
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: FLR2-22-45HE-L935-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

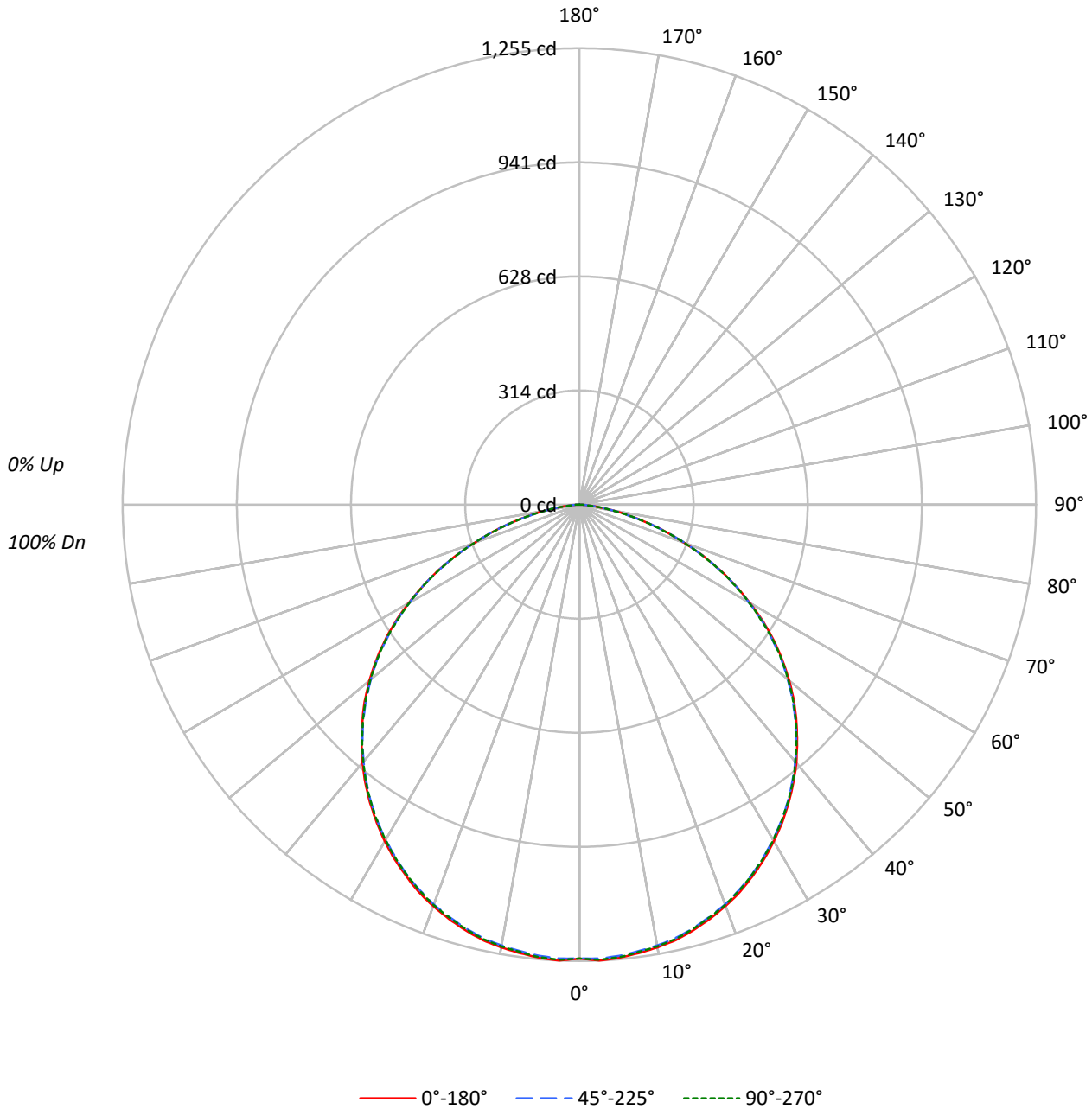
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3490.5 lumens
Efficiency: N/A
Efficacy: 96.4 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): 36.2
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°	3359	3359	3359
5°	3380	3365	3376
10°	3379	3364	3371
15°	3376	3361	3366
20°	3365	3351	3356
25°	3347	3333	3335
30°	3323	3308	3310
35°	3292	3280	3282
40°	3258	3242	3244
45°	3210	3195	3201
50°	3153	3131	3137
55°	3064	3038	3049
60°	2913	2900	2900
65°	2720	2714	2705
70°	2408	2420	2414
75°	2027	2012	1996
80°	1458	1433	1421
85°	763	763	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	339.9	9.7
20°-30°	516.5	14.8
30°-40°	624.3	17.9
40°-50°	648.0	18.6
50°-60°	579.3	16.6
60°-70°	421.2	12.1
70°-80°	207.1	5.9
80°-90°	35.9	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°	974.6	27.9
0°-40°	1598.9	45.8
0°-60°	2826.2	81.0
0°-90°	3490.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3490.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1248	1248	1248	1248	1248	
5°	1251	1237	1246	1241	1250	119
15°	1212	1198	1206	1203	1208	342
25°	1127	1115	1122	1120	1123	520
35°	1002	995	998	999	999	627
45°	843	840	840	841	841	651
55°	653	649	648	649	650	582
65°	427	429	426	426	425	421
75°	195	197	194	194	192	207
85°	25	25	25	25	24	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.2	1248.2	1248.2	1248.2	1248.2
2.5°	1255.1	1240.4	1249.7	1244.3	1252.8
5°	1251.2	1236.6	1245.8	1241.2	1249.7
7.5°	1244.3	1229.7	1238.9	1234.3	1241.2
10°	1236.6	1221.2	1231.2	1226.6	1233.5
12.5°	1226.6	1211.9	1221.2	1217.3	1223.5
15°	1211.9	1198.0	1206.5	1203.4	1208.1
17.5°	1194.2	1180.3	1188.8	1186.5	1190.3
20°	1174.9	1161.8	1170.3	1168.0	1171.8
22.5°	1153.3	1139.5	1147.2	1145.6	1148.7
25°	1127.1	1114.8	1122.5	1120.2	1123.3
27.5°	1099.4	1087.8	1094.0	1094.0	1095.5
30°	1069.3	1058.5	1064.7	1064.7	1065.4
32.5°	1036.9	1028.4	1032.3	1033.1	1033.1
35°	1002.2	995.3	998.4	999.1	999.1
37.5°	966.0	959.1	961.4	962.9	962.9
40°	927.4	921.3	922.8	924.4	923.6
42.5°	885.8	881.2	882.0	883.5	883.5
45°	843.4	839.6	839.6	841.1	841.1
47.5°	800.2	796.4	794.8	796.4	796.4
50°	753.2	749.4	747.8	749.4	749.4
52.5°	703.9	700.0	700.0	700.0	700.8
55°	653.0	649.1	647.6	649.1	649.9
57.5°	599.0	597.5	595.2	595.9	593.6
60°	541.2	541.2	538.9	540.4	538.9
62.5°	484.9	486.5	484.2	484.2	482.6
65°	427.1	428.6	426.3	426.3	424.8
67.5°	367.7	370.1	367.0	367.0	365.4
70°	306.1	310.7	307.6	308.4	306.8
72.5°	250.6	252.9	249.8	249.8	248.2
75°	195.0	196.6	193.5	194.3	192.0
77.5°	140.3	142.6	139.5	140.3	139.5
80°	94.1	94.8	92.5	93.3	91.7
82.5°	54.7	55.5	54.7	54.0	53.2
85°	24.7	25.4	24.7	24.7	23.9
87.5°	6.2	6.2	6.2	6.2	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)