

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: P974048

Luminaire Tested: FLR2-22-45HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974048
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

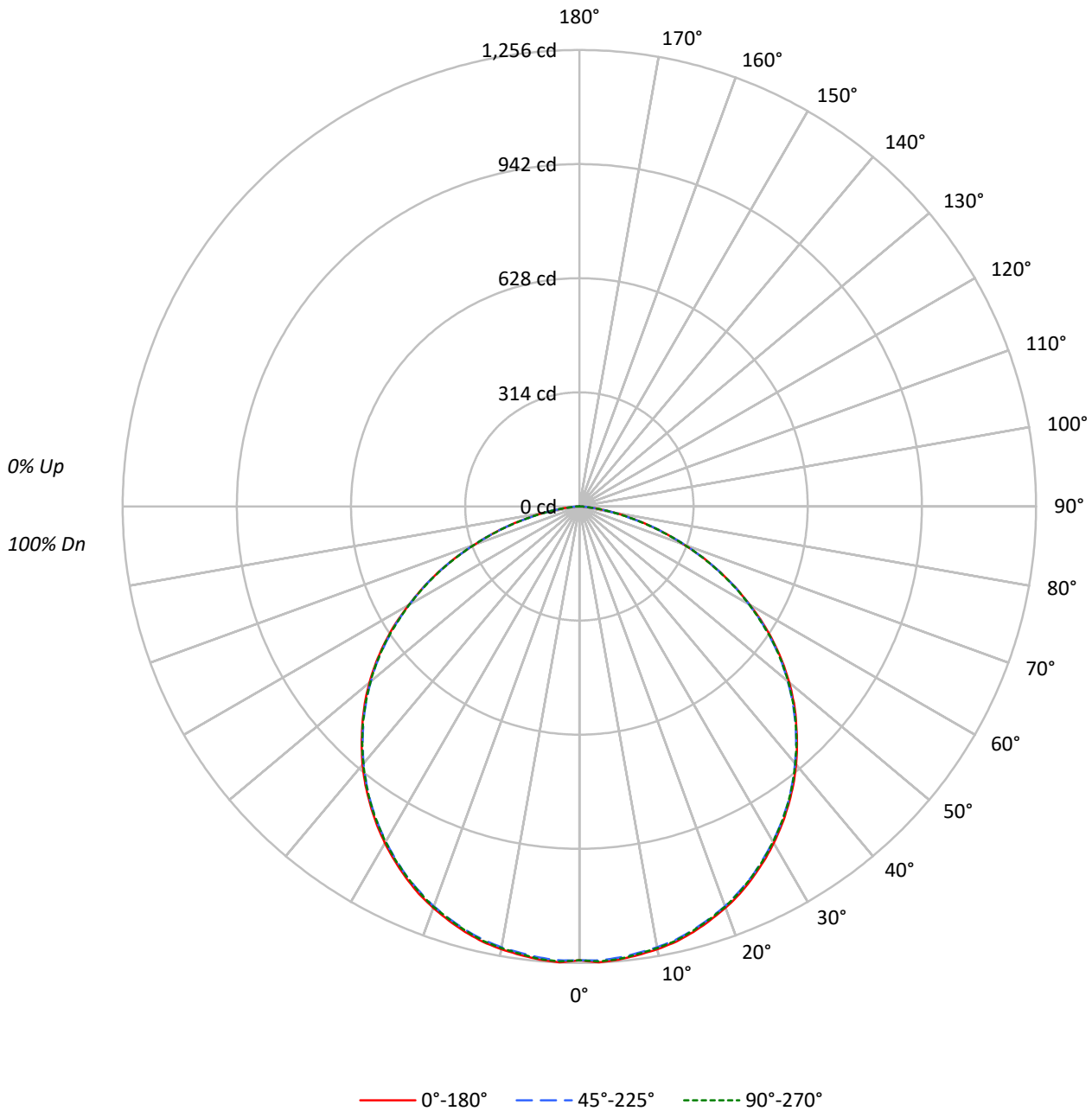
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3491.7 lumens
Efficiency: N/A
Efficacy: 96.5 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°	3360	3360	3360
5°	3381	3366	3377
10°	3380	3365	3372
15°	3377	3362	3367
20°	3366	3353	3357
25°	3348	3334	3336
30°	3324	3309	3312
35°	3293	3281	3283
40°	3259	3243	3245
45°	3211	3196	3202
50°	3154	3132	3138
55°	3065	3039	3050
60°	2914	2901	2901
65°	2720	2716	2706
70°	2409	2421	2415
75°	2028	2013	1996
80°	1458	1433	1423
85°	763	763	738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3211 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.4
10°-20°	340.0	9.7
20°-30°	516.7	14.8
30°-40°	624.5	17.9
40°-50°	648.2	18.6
50°-60°	579.5	16.6
60°-70°	421.4	12.1
70°-80°	207.2	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°	974.9	27.9
0°-40°	1599.4	45.8
0°-60°	2827.1	81.0
0°-90°	3491.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3491.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1252	1237	1246	1242	1250	119
15°	1212	1198	1207	1204	1208	342
25°	1128	1115	1123	1120	1124	520
35°	1002	996	999	1000	1000	627
45°	844	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°	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1255.5	1240.8	1250.1	1244.7	1253.2
5°	1251.6	1237.0	1246.2	1241.6	1250.1
7.5°	1244.7	1230.1	1239.3	1234.7	1241.6
10°	1237.0	1221.6	1231.6	1227.0	1233.9
12.5°	1227.0	1212.3	1221.6	1217.7	1223.9
15°	1212.3	1198.4	1206.9	1203.8	1208.5
17.5°	1194.6	1180.7	1189.2	1186.9	1190.7
20°	1175.3	1162.2	1170.7	1168.4	1172.2
22.5°	1153.7	1139.8	1147.5	1146.0	1149.1
25°	1127.5	1115.1	1122.9	1120.5	1123.6
27.5°	1099.7	1088.2	1094.3	1094.3	1095.9
30°	1069.6	1058.8	1065.0	1065.0	1065.8
32.5°	1037.3	1028.8	1032.6	1033.4	1033.4
35°	1002.5	995.6	998.7	999.5	999.5
37.5°	966.3	959.4	961.7	963.2	963.2
40°	927.7	921.6	923.1	924.7	923.9
42.5°	886.1	881.5	882.2	883.8	883.8
45°	843.7	839.8	839.8	841.4	841.4
47.5°	800.5	796.6	795.1	796.6	796.6
50°	753.5	749.6	748.1	749.6	749.6
52.5°	704.1	700.2	700.2	700.2	701.0
55°	653.2	649.3	647.8	649.3	650.1
57.5°	599.2	597.7	595.4	596.1	593.8
60°	541.4	541.4	539.1	540.6	539.1
62.5°	485.1	486.6	484.3	484.3	482.8
65°	427.2	428.8	426.5	426.5	424.9
67.5°	367.9	370.2	367.1	367.1	365.5
70°	306.2	310.8	307.7	308.5	306.9
72.5°	250.6	253.0	249.9	249.9	248.3
75°	195.1	196.7	193.6	194.3	192.0
77.5°	140.4	142.7	139.6	140.4	139.6
80°	94.1	94.9	92.5	93.3	91.8
82.5°	54.8	55.5	54.8	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)