

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: P973792

Luminaire Tested: FLR2-22-60HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973792
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: FLR2-22-60HE-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

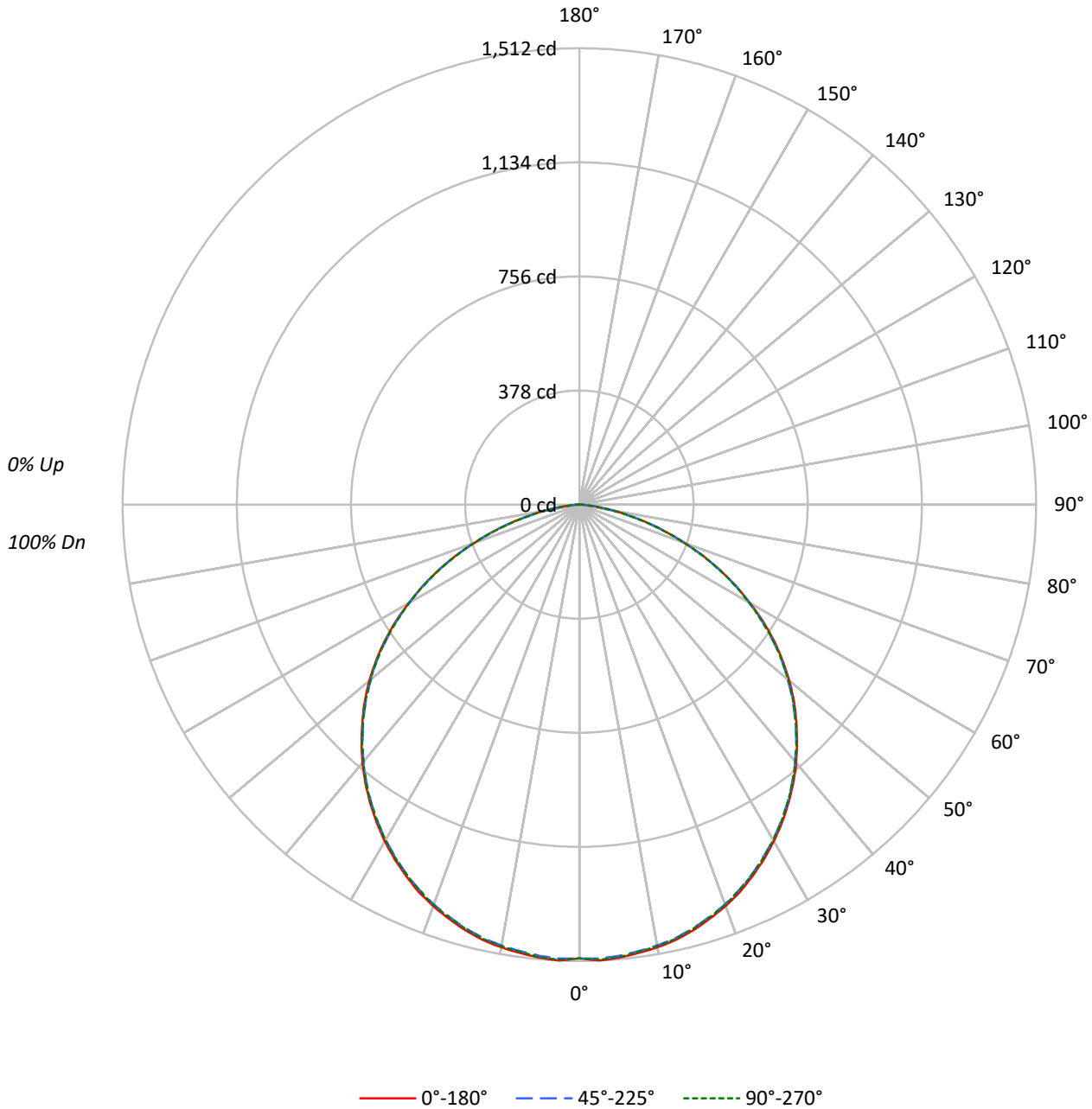
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4204.4 lumens
Efficiency: N/A
Efficacy: 88.7 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): 47.4
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°	4046	4046	4046
5°	4071	4054	4066
10°	4070	4052	4060
15°	4067	4049	4054
20°	4053	4037	4042
25°	4031	4015	4017
30°	4002	3985	3988
35°	3966	3951	3954
40°	3924	3905	3908
45°	3866	3849	3855
50°	3798	3771	3779
55°	3690	3659	3673
60°	3508	3493	3493
65°	3276	3270	3258
70°	2901	2915	2908
75°	2442	2424	2404
80°	1756	1726	1712
85°	917	917	889

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3866 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	3.4
10°-20°	409.4	9.7
20°-30°	622.1	14.8
30°-40°	752.0	17.9
40°-50°	780.5	18.6
50°-60°	697.8	16.6
60°-70°	507.4	12.1
70°-80°	249.5	5.9
80°-90°	43.3	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°	1173.9	27.9
0°-40°	1925.9	45.8
0°-60°	3404.3	81.0
0°-90°	4204.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4204.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1503	1503	1503	1503	1503	
5°	1507	1490	1501	1495	1505	143
15°	1460	1443	1453	1450	1455	412
25°	1358	1343	1352	1349	1353	626
35°	1207	1199	1203	1204	1204	755
45°	1016	1011	1011	1013	1013	784
55°	786	782	780	782	783	701
65°	514	516	514	514	512	507
75°	235	237	233	234	231	249
85°	30	31	30	30	29	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.4	1503.4	1503.4	1503.4	1503.4
2.5°	1511.8	1494.2	1505.3	1498.8	1509.0
5°	1507.2	1489.5	1500.7	1495.1	1505.3
7.5°	1498.8	1481.2	1492.3	1486.7	1495.1
10°	1489.5	1470.9	1483.0	1477.4	1485.8
12.5°	1477.4	1459.8	1470.9	1466.3	1473.7
15°	1459.8	1443.1	1453.3	1449.6	1455.2
17.5°	1438.4	1421.7	1431.9	1429.2	1433.8
20°	1415.2	1399.4	1409.6	1406.9	1411.5
22.5°	1389.2	1372.5	1381.8	1379.9	1383.6
25°	1357.6	1342.8	1352.1	1349.3	1353.0
27.5°	1324.2	1310.3	1317.7	1317.7	1319.6
30°	1288.0	1275.0	1282.4	1282.4	1283.4
32.5°	1249.0	1238.8	1243.4	1244.4	1244.4
35°	1207.2	1198.9	1202.6	1203.5	1203.5
37.5°	1163.6	1155.2	1158.0	1159.8	1159.8
40°	1117.1	1109.7	1111.6	1113.4	1112.5
42.5°	1067.0	1061.4	1062.3	1064.2	1064.2
45°	1015.9	1011.3	1011.3	1013.1	1013.1
47.5°	963.9	959.3	957.4	959.3	959.3
50°	907.3	902.6	900.8	902.6	902.6
52.5°	847.8	843.2	843.2	843.2	844.1
55°	786.5	781.9	780.0	781.9	782.8
57.5°	721.5	719.7	716.9	717.8	715.0
60°	651.9	651.9	649.1	651.0	649.1
62.5°	584.1	586.0	583.2	583.2	581.3
65°	514.5	516.3	513.5	513.5	511.7
67.5°	443.0	445.7	442.0	442.0	440.2
70°	368.7	374.2	370.5	371.4	369.6
72.5°	301.8	304.6	300.9	300.9	299.0
75°	234.9	236.8	233.1	234.0	231.2
77.5°	169.0	171.8	168.1	169.0	168.1
80°	113.3	114.2	111.4	112.4	110.5
82.5°	65.9	66.9	65.9	65.0	64.1
85°	29.7	30.6	29.7	29.7	28.8
87.5°	7.4	7.4	7.4	7.4	7.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)