

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: P973576

Luminaire Tested: FLR2-22-45-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973576
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: FLR2-22-45-L835-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

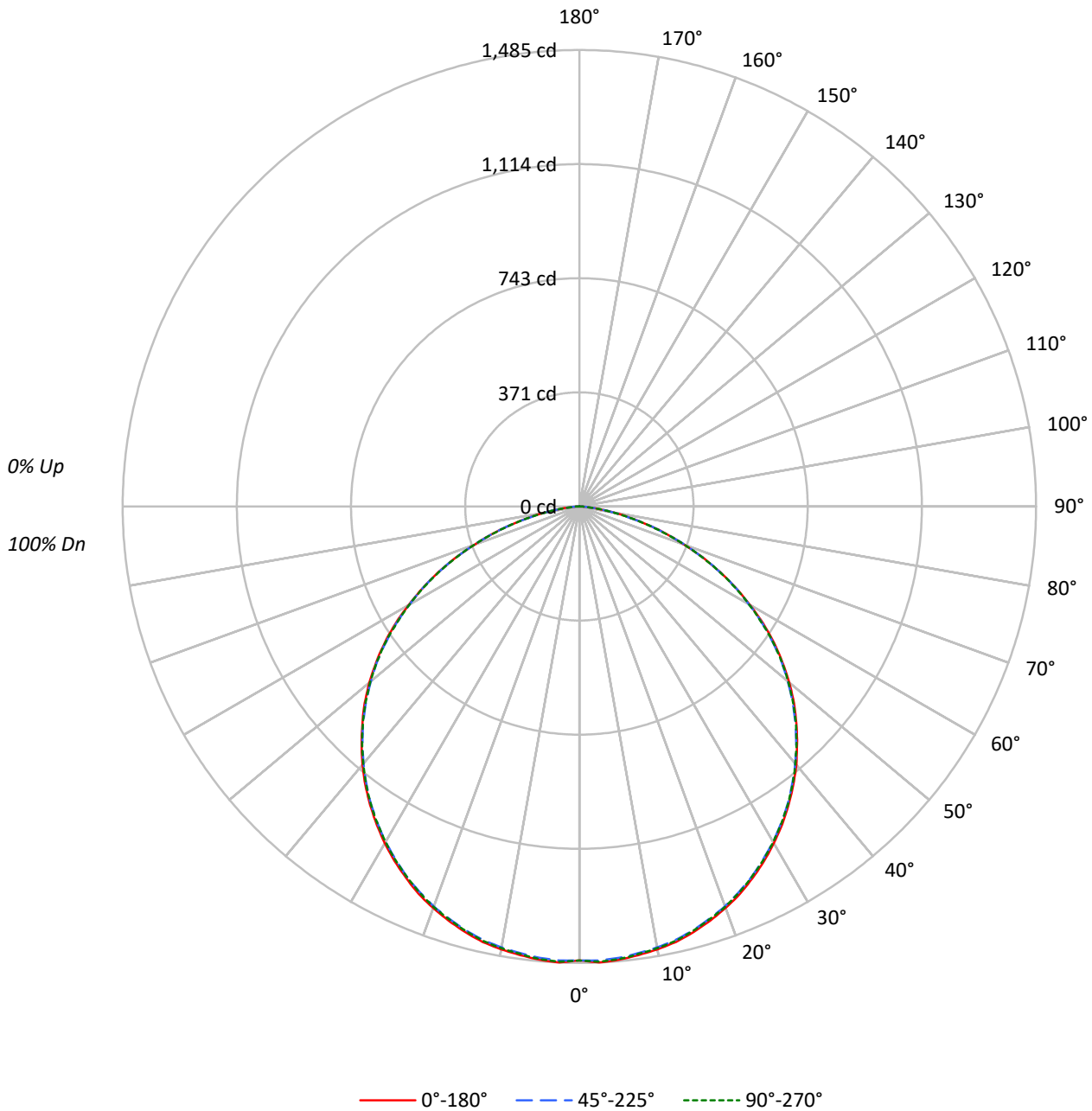
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4130.0 lumens
Efficiency: N/A
Efficacy: 114.4 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): 36.1
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°	3974	3974	3974
5°	3999	3982	3994
10°	3998	3981	3988
15°	3995	3977	3982
20°	3981	3965	3970
25°	3960	3943	3946
30°	3931	3914	3917
35°	3895	3881	3884
40°	3855	3836	3839
45°	3798	3781	3787
50°	3731	3704	3712
55°	3625	3595	3608
60°	3447	3432	3432
65°	3217	3212	3200
70°	2849	2864	2856
75°	2400	2381	2361
80°	1725	1697	1681
85°	902	902	874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3798 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.4
10°-20°	402.2	9.7
20°-30°	611.1	14.8
30°-40°	738.7	17.9
40°-50°	766.7	18.6
50°-60°	685.5	16.6
60°-70°	498.4	12.1
70°-80°	245.1	5.9
80°-90°	42.5	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°	1153.1	27.9
0°-40°	1891.8	45.8
0°-60°	3344.0	81.0
0°-90°	4130.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4130.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1480	1463	1474	1469	1479	141
15°	1434	1418	1428	1424	1429	405
25°	1334	1319	1328	1325	1329	615
35°	1186	1178	1181	1182	1182	742
45°	998	993	993	995	995	770
55°	773	768	766	768	769	689
65°	505	507	504	504	503	498
75°	231	233	229	230	227	245
85°	29	30	29	29	28	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1485.0	1467.7	1478.6	1472.3	1482.3
5°	1480.5	1463.1	1474.1	1468.6	1478.6
7.5°	1472.3	1454.9	1465.9	1460.4	1468.6
10°	1463.1	1444.9	1456.8	1451.3	1459.5
12.5°	1451.3	1434.0	1444.9	1440.3	1447.6
15°	1434.0	1417.5	1427.6	1423.9	1429.4
17.5°	1413.0	1396.6	1406.6	1403.8	1408.4
20°	1390.2	1374.7	1384.7	1382.0	1386.5
22.5°	1364.6	1348.2	1357.3	1355.5	1359.2
25°	1333.6	1319.0	1328.1	1325.4	1329.0
27.5°	1300.8	1287.1	1294.4	1294.4	1296.2
30°	1265.2	1252.4	1259.7	1259.7	1260.6
32.5°	1226.9	1216.9	1221.4	1222.3	1222.3
35°	1185.8	1177.6	1181.3	1182.2	1182.2
37.5°	1143.0	1134.8	1137.5	1139.3	1139.3
40°	1097.4	1090.1	1091.9	1093.7	1092.8
42.5°	1048.1	1042.6	1043.5	1045.4	1045.4
45°	997.9	993.4	993.4	995.2	995.2
47.5°	946.8	942.3	940.5	942.3	942.3
50°	891.2	886.6	884.8	886.6	886.6
52.5°	832.8	828.3	828.3	828.3	829.2
55°	772.6	768.1	766.2	768.1	769.0
57.5°	708.8	706.9	704.2	705.1	702.4
60°	640.4	640.4	637.6	639.4	637.6
62.5°	573.8	575.6	572.9	572.9	571.0
65°	505.3	507.2	504.4	504.4	502.6
67.5°	435.1	437.8	434.2	434.2	432.4
70°	362.1	367.6	364.0	364.9	363.0
72.5°	296.5	299.2	295.5	295.5	293.7
75°	230.8	232.6	229.0	229.9	227.1
77.5°	166.0	168.8	165.1	166.0	165.1
80°	111.3	112.2	109.5	110.4	108.5
82.5°	64.8	65.7	64.8	63.9	62.9
85°	29.2	30.1	29.2	29.2	28.3
87.5°	7.3	7.3	7.3	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)