

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: P973831

Luminaire Tested: FLR2-22-35HE-L835-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973831
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: FLR2-22-35HE-L835-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

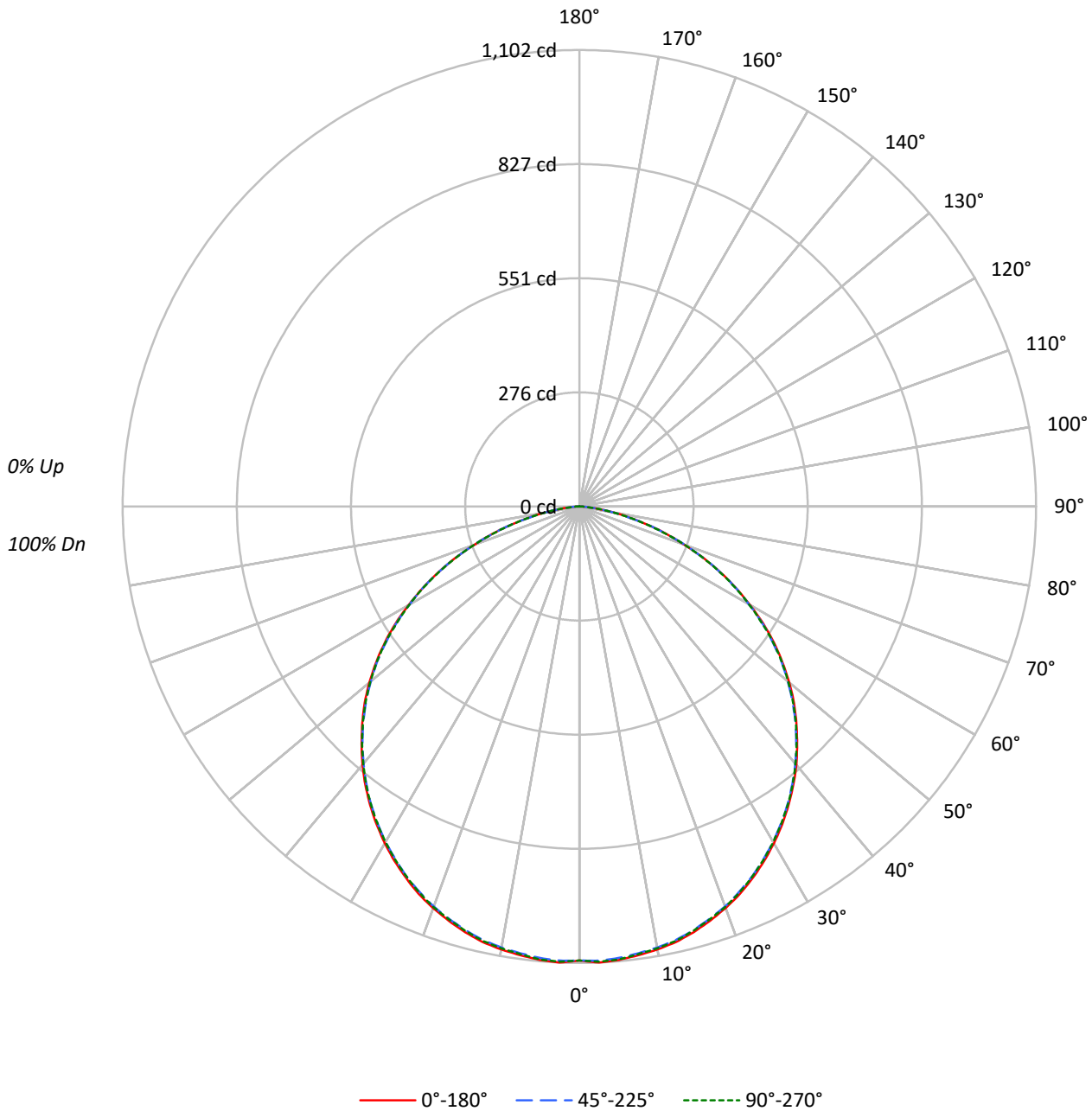
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3065.3 lumens
Efficiency: N/A
Efficacy: 112.7 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): 27.2
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									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°	2950	2950	2950
5°	2968	2955	2965
10°	2967	2954	2960
15°	2965	2952	2956
20°	2955	2943	2947
25°	2939	2927	2929
30°	2918	2905	2907
35°	2891	2880	2882
40°	2861	2847	2849
45°	2819	2806	2811
50°	2769	2749	2755
55°	2690	2668	2677
60°	2558	2547	2547
65°	2388	2384	2375
70°	2115	2125	2120
75°	1781	1766	1753
80°	1280	1258	1249
85°	670	670	648

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2819 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.8	3.4
10°-20°	298.5	9.7
20°-30°	453.6	14.8
30°-40°	548.3	17.9
40°-50°	569.1	18.6
50°-60°	508.8	16.6
60°-70°	369.9	12.1
70°-80°	181.9	5.9
80°-90°	31.5	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°	855.9	27.9
0°-40°	1404.1	45.8
0°-60°	2481.9	81.0
0°-90°	3065.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3065.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1096	1096	1096	1096	1096	
5°	1099	1086	1094	1090	1098	104
15°	1064	1052	1060	1057	1061	300
25°	990	979	986	984	986	456
35°	880	874	877	877	877	551
45°	741	737	737	739	739	571
55°	573	570	569	570	571	511
65°	375	376	374	374	373	370
75°	171	173	170	171	169	182
85°	22	22	22	22	21	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.1	1096.1	1096.1	1096.1	1096.1
2.5°	1102.2	1089.3	1097.5	1092.7	1100.2
5°	1098.8	1086.0	1094.1	1090.0	1097.5
7.5°	1092.7	1079.9	1088.0	1083.9	1090.0
10°	1086.0	1072.4	1081.2	1077.1	1083.2
12.5°	1077.1	1064.3	1072.4	1069.0	1074.4
15°	1064.3	1052.1	1059.5	1056.8	1060.9
17.5°	1048.7	1036.5	1044.0	1041.9	1045.3
20°	1031.8	1020.3	1027.7	1025.7	1029.1
22.5°	1012.8	1000.6	1007.4	1006.1	1008.8
25°	989.8	979.0	985.8	983.7	986.4
27.5°	965.4	955.3	960.7	960.7	962.1
30°	939.0	929.6	935.0	935.0	935.7
32.5°	910.6	903.2	906.5	907.2	907.2
35°	880.1	874.0	876.7	877.4	877.4
37.5°	848.3	842.2	844.3	845.6	845.6
40°	814.5	809.0	810.4	811.8	811.1
42.5°	777.9	773.8	774.5	775.9	775.9
45°	740.7	737.3	737.3	738.6	738.6
47.5°	702.8	699.4	698.0	699.4	699.4
50°	661.5	658.1	656.7	658.1	658.1
52.5°	618.1	614.7	614.7	614.7	615.4
55°	573.4	570.1	568.7	570.1	570.7
57.5°	526.0	524.7	522.7	523.3	521.3
60°	475.3	475.3	473.2	474.6	473.2
62.5°	425.8	427.2	425.2	425.2	423.8
65°	375.1	376.4	374.4	374.4	373.0
67.5°	322.9	325.0	322.3	322.3	320.9
70°	268.8	272.8	270.1	270.8	269.5
72.5°	220.0	222.1	219.4	219.4	218.0
75°	171.3	172.6	169.9	170.6	168.6
77.5°	123.2	125.2	122.5	123.2	122.5
80°	82.6	83.3	81.2	81.9	80.6
82.5°	48.1	48.7	48.1	47.4	46.7
85°	21.7	22.3	21.7	21.7	21.0
87.5°	5.4	5.4	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)