

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: P973807

Luminaire Tested: FLR2-22-35HE-L835-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973807
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

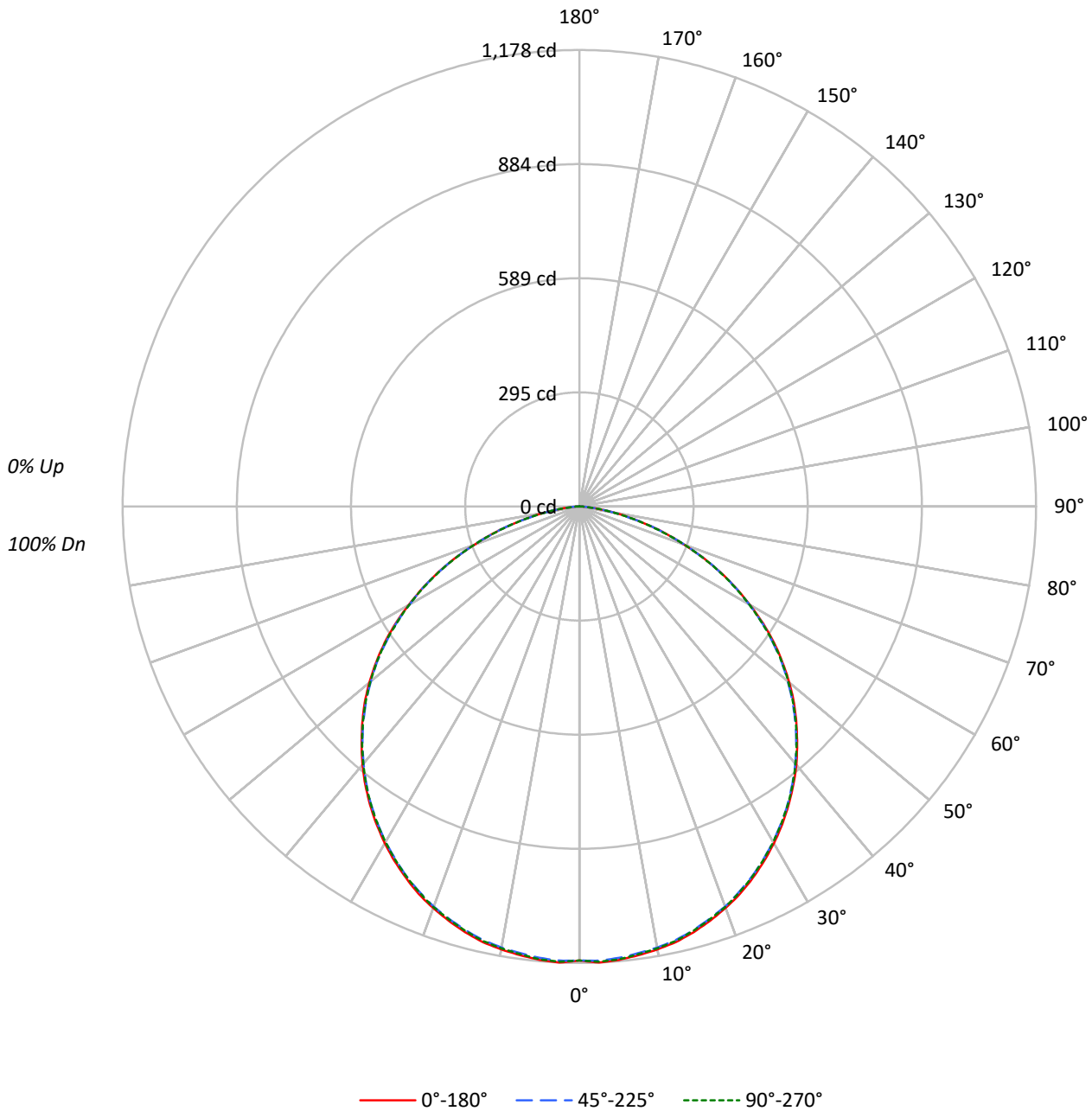
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3276.7 lumens
Efficiency: N/A
Efficacy: 120.5 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): 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									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°	3153	3153	3153
5°	3173	3159	3169
10°	3172	3158	3164
15°	3170	3155	3159
20°	3158	3146	3150
25°	3142	3129	3131
30°	3119	3106	3108
35°	3091	3079	3081
40°	3058	3043	3046
45°	3013	2999	3005
50°	2960	2939	2945
55°	2876	2852	2862
60°	2735	2723	2723
65°	2553	2548	2539
70°	2260	2272	2266
75°	1904	1889	1874
80°	1368	1345	1334
85°	716	716	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3013 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.4
10°-20°	319.1	9.7
20°-30°	484.9	14.8
30°-40°	586.1	17.9
40°-50°	608.3	18.6
50°-60°	543.8	16.6
60°-70°	395.4	12.1
70°-80°	194.5	5.9
80°-90°	33.7	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°	914.9	27.9
0°-40°	1501.0	45.8
0°-60°	2653.1	81.0
0°-90°	3276.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3276.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1172	1172	1172	1172	1172	
5°	1175	1161	1170	1165	1173	112
15°	1138	1125	1133	1130	1134	321
25°	1058	1046	1054	1052	1054	488
35°	941	934	937	938	938	589
45°	792	788	788	790	790	611
55°	613	609	608	609	610	546
65°	401	402	400	400	399	395
75°	183	184	182	182	180	194
85°	23	24	23	23	22	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1171.7	1171.7	1171.7	1171.7	1171.7
2.5°	1178.2	1164.5	1173.1	1168.1	1176.0
5°	1174.6	1160.8	1169.5	1165.2	1173.1
7.5°	1168.1	1154.3	1163.0	1158.7	1165.2
10°	1160.8	1146.4	1155.8	1151.4	1158.0
12.5°	1151.4	1137.7	1146.4	1142.8	1148.5
15°	1137.7	1124.7	1132.6	1129.7	1134.1
17.5°	1121.0	1108.0	1116.0	1113.8	1117.4
20°	1102.9	1090.6	1098.6	1096.4	1100.1
22.5°	1082.7	1069.7	1076.9	1075.4	1078.3
25°	1058.1	1046.5	1053.7	1051.6	1054.5
27.5°	1032.0	1021.2	1027.0	1027.0	1028.4
30°	1003.8	993.7	999.5	999.5	1000.2
32.5°	973.4	965.4	969.1	969.8	969.8
35°	940.8	934.3	937.2	937.9	937.9
37.5°	906.8	900.3	902.5	903.9	903.9
40°	870.6	864.8	866.3	867.7	867.0
42.5°	831.6	827.2	827.9	829.4	829.4
45°	791.7	788.1	788.1	789.6	789.6
47.5°	751.2	747.6	746.2	747.6	747.6
50°	707.1	703.5	702.0	703.5	703.5
52.5°	660.8	657.1	657.1	657.1	657.9
55°	613.0	609.4	607.9	609.4	610.1
57.5°	562.3	560.9	558.7	559.4	557.3
60°	508.1	508.1	505.9	507.3	505.9
62.5°	455.2	456.7	454.5	454.5	453.0
65°	400.9	402.4	400.2	400.2	398.8
67.5°	345.2	347.4	344.5	344.5	343.0
70°	287.3	291.7	288.8	289.5	288.0
72.5°	235.2	237.4	234.5	234.5	233.0
75°	183.1	184.5	181.7	182.4	180.2
77.5°	131.7	133.9	131.0	131.7	131.0
80°	88.3	89.0	86.8	87.6	86.1
82.5°	51.4	52.1	51.4	50.7	49.9
85°	23.2	23.9	23.2	23.2	22.4
87.5°	5.8	5.8	5.8	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)