

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: P973837

Luminaire Tested: FLR2-22-35HE-L835-CA080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973837
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-CA080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

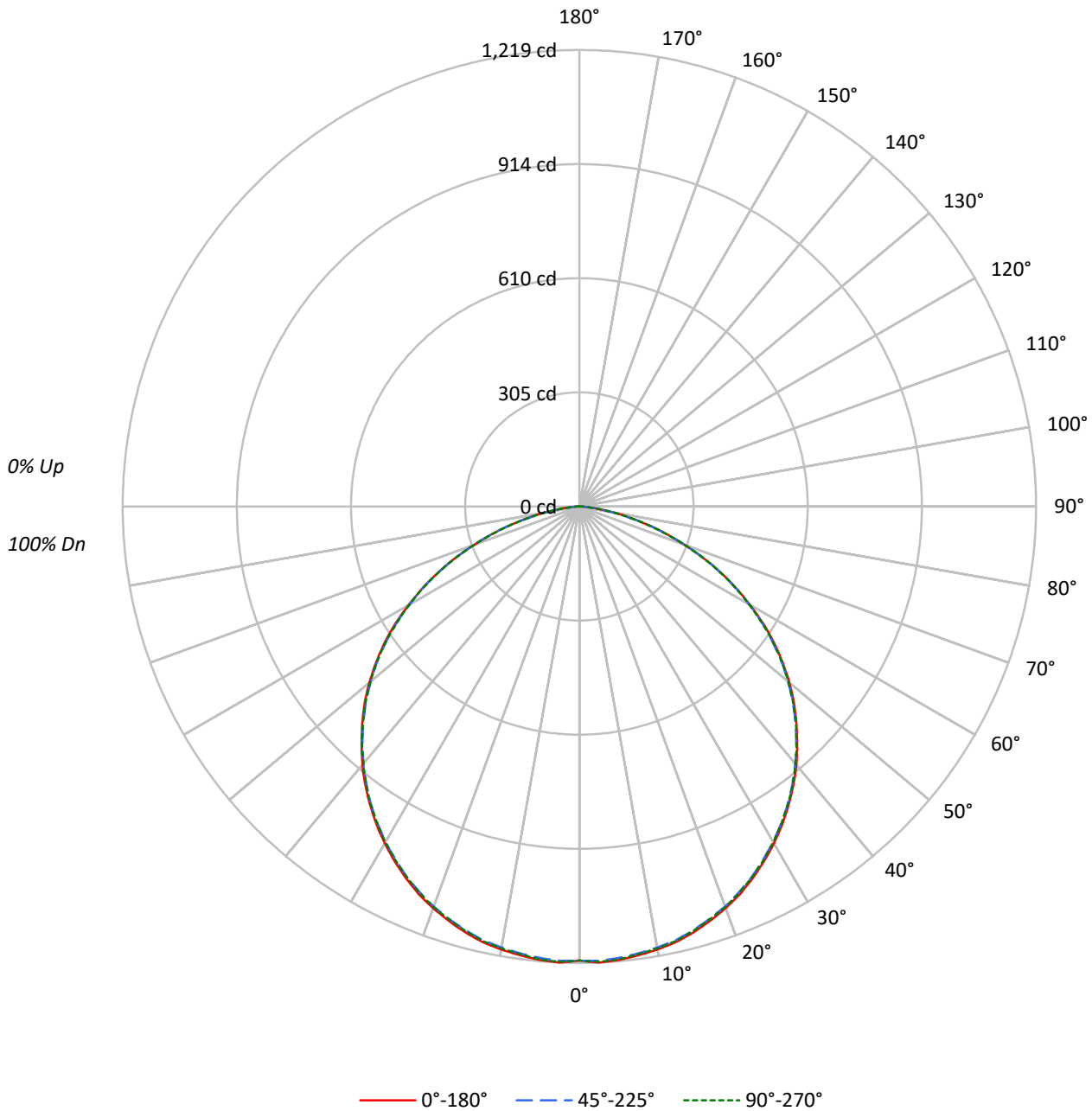
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3391.3 lumens
Efficiency: N/A
Efficacy: 124.7 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									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°	3263	3263	3263
5°	3284	3270	3280
10°	3283	3269	3275
15°	3280	3266	3270
20°	3269	3256	3260
25°	3252	3238	3240
30°	3228	3214	3217
35°	3199	3187	3189
40°	3165	3150	3152
45°	3118	3104	3110
50°	3064	3042	3048
55°	2976	2952	2962
60°	2830	2818	2818
65°	2642	2637	2628
70°	2340	2352	2345
75°	1970	1955	1939
80°	1416	1393	1381
85°	741	741	716

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3118 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.4
10°-20°	330.2	9.7
20°-30°	501.8	14.8
30°-40°	606.6	17.9
40°-50°	629.6	18.6
50°-60°	562.9	16.6
60°-70°	409.2	12.1
70°-80°	201.3	5.9
80°-90°	34.9	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°	946.9	27.9
0°-40°	1553.5	45.8
0°-60°	2745.9	81.0
0°-90°	3391.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3391.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1216	1202	1210	1206	1214	116
15°	1178	1164	1172	1169	1174	332
25°	1095	1083	1091	1088	1091	505
35°	974	967	970	971	971	609
45°	819	816	816	817	817	632
55°	634	631	629	631	631	565
65°	415	416	414	414	413	409
75°	190	191	188	189	186	201
85°	24	25	24	24	23	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1212.7	1212.7	1212.7	1212.7	1212.7
2.5°	1219.4	1205.2	1214.2	1208.9	1217.2
5°	1215.7	1201.5	1210.4	1205.9	1214.2
7.5°	1208.9	1194.7	1203.7	1199.2	1205.9
10°	1201.5	1186.5	1196.2	1191.7	1198.5
12.5°	1191.7	1177.5	1186.5	1182.7	1188.7
15°	1177.5	1164.0	1172.2	1169.2	1173.7
17.5°	1160.3	1146.8	1155.0	1152.8	1156.5
20°	1141.5	1128.8	1137.0	1134.8	1138.5
22.5°	1120.6	1107.1	1114.6	1113.1	1116.1
25°	1095.1	1083.1	1090.6	1088.4	1091.3
27.5°	1068.1	1056.9	1062.9	1062.9	1064.4
30°	1038.9	1028.4	1034.4	1034.4	1035.2
32.5°	1007.5	999.2	1003.0	1003.7	1003.7
35°	973.7	967.0	970.0	970.8	970.8
37.5°	938.5	931.8	934.0	935.5	935.5
40°	901.1	895.1	896.6	898.1	897.3
42.5°	860.6	856.1	856.9	858.4	858.4
45°	819.4	815.7	815.7	817.2	817.2
47.5°	777.5	773.8	772.3	773.8	773.8
50°	731.8	728.1	726.6	728.1	728.1
52.5°	683.9	680.1	680.1	680.1	680.9
55°	634.4	630.7	629.2	630.7	631.4
57.5°	582.0	580.5	578.3	579.0	576.8
60°	525.8	525.8	523.6	525.1	523.6
62.5°	471.1	472.6	470.4	470.4	468.9
65°	415.0	416.5	414.2	414.2	412.7
67.5°	357.3	359.5	356.5	356.5	355.0
70°	297.4	301.9	298.9	299.6	298.1
72.5°	243.4	245.7	242.7	242.7	241.2
75°	189.5	191.0	188.0	188.8	186.5
77.5°	136.3	138.6	135.6	136.3	135.6
80°	91.4	92.1	89.9	90.6	89.1
82.5°	53.2	53.9	53.2	52.4	51.7
85°	24.0	24.7	24.0	24.0	23.2
87.5°	6.0	6.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)