

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: P973825

Luminaire Tested: FLR2-22-35HE-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973825
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-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

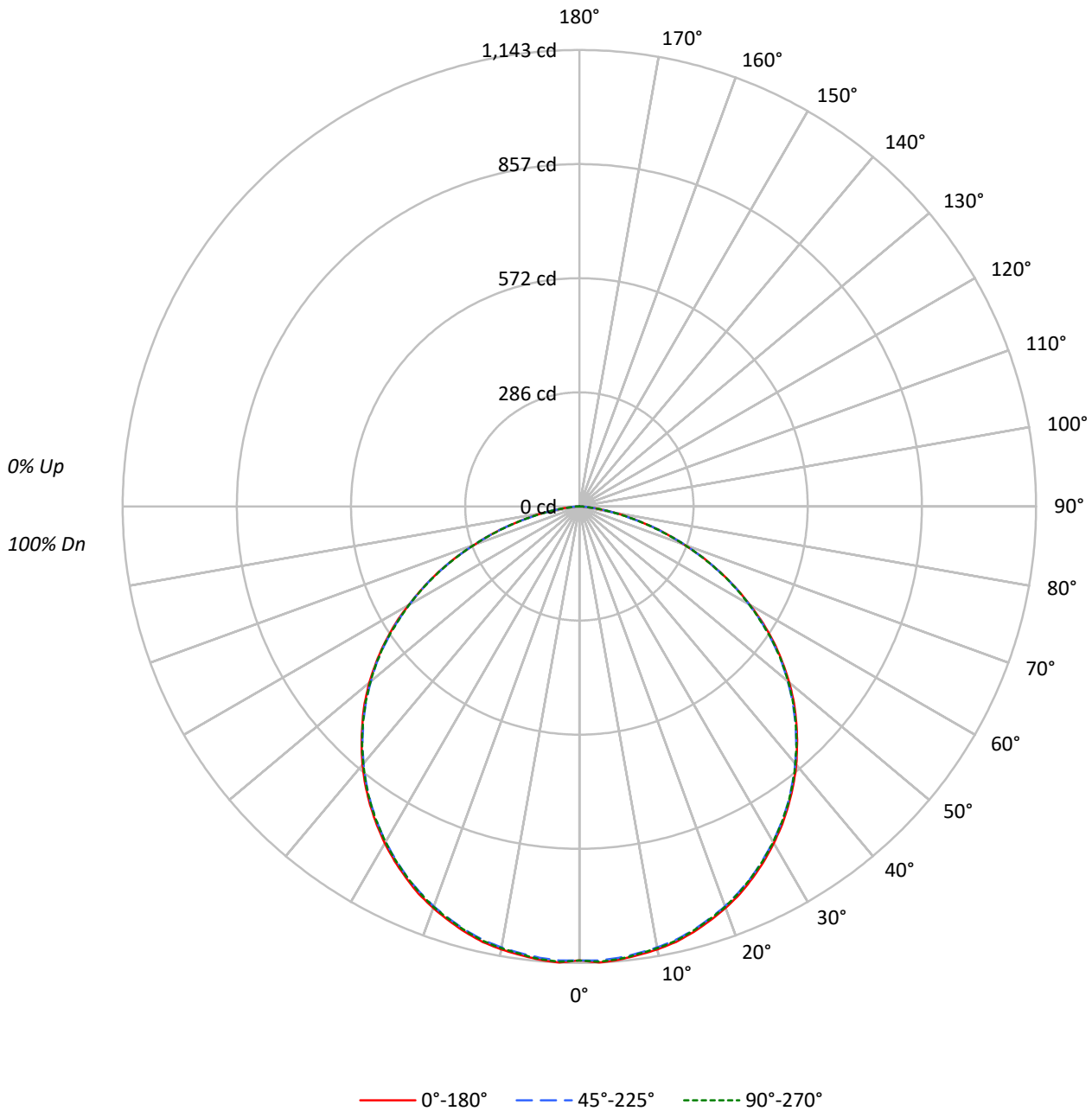
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3178.6 lumens
Efficiency: N/A
Efficacy: 116.9 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				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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3059	3059	3059
5°	3078	3065	3074
10°	3077	3064	3069
15°	3075	3061	3065
20°	3064	3052	3056
25°	3048	3035	3037
30°	3026	3013	3015
35°	2998	2987	2989
40°	2967	2952	2955
45°	2923	2909	2915
50°	2871	2851	2857
55°	2790	2767	2776
60°	2652	2641	2641
65°	2476	2472	2463
70°	2193	2204	2198
75°	1847	1832	1817
80°	1328	1305	1294
85°	695	695	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2923 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.4
10°-20°	309.5	9.7
20°-30°	470.4	14.8
30°-40°	568.5	17.9
40°-50°	590.1	18.6
50°-60°	527.6	16.6
60°-70°	383.6	12.1
70°-80°	188.6	5.9
80°-90°	32.7	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°	887.5	27.9
0°-40°	1456.1	45.8
0°-60°	2573.7	81.0
0°-90°	3178.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1139	1126	1134	1130	1138	108
15°	1104	1091	1099	1096	1100	311
25°	1026	1015	1022	1020	1023	473
35°	913	906	909	910	910	571
45°	768	764	764	766	766	592
55°	595	591	590	591	592	530
65°	389	390	388	388	387	384
75°	178	179	176	177	175	189
85°	22	23	22	22	22	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.6	1136.6	1136.6	1136.6	1136.6
2.5°	1143.0	1129.6	1138.0	1133.1	1140.9
5°	1139.4	1126.1	1134.5	1130.3	1138.0
7.5°	1133.1	1119.8	1128.2	1124.0	1130.3
10°	1126.1	1112.1	1121.2	1117.0	1123.3
12.5°	1117.0	1103.6	1112.1	1108.6	1114.2
15°	1103.6	1091.0	1098.7	1095.9	1100.1
17.5°	1087.5	1074.9	1082.6	1080.5	1084.0
20°	1069.9	1058.0	1065.7	1063.6	1067.1
22.5°	1050.3	1037.6	1044.7	1043.3	1046.1
25°	1026.4	1015.2	1022.2	1020.1	1022.9
27.5°	1001.1	990.6	996.2	996.2	997.6
30°	973.8	963.9	969.5	969.5	970.2
32.5°	944.3	936.6	940.1	940.8	940.8
35°	912.7	906.4	909.2	909.9	909.9
37.5°	879.7	873.4	875.5	876.9	876.9
40°	844.6	839.0	840.4	841.8	841.1
42.5°	806.7	802.5	803.2	804.6	804.6
45°	768.1	764.5	764.5	765.9	765.9
47.5°	728.7	725.2	723.8	725.2	725.2
50°	685.9	682.4	681.0	682.4	682.4
52.5°	641.0	637.5	637.5	637.5	638.2
55°	594.6	591.1	589.7	591.1	591.8
57.5°	545.5	544.1	542.0	542.7	540.6
60°	492.8	492.8	490.7	492.1	490.7
62.5°	441.6	443.0	440.9	440.9	439.5
65°	388.9	390.3	388.2	388.2	386.8
67.5°	334.9	337.0	334.2	334.2	332.8
70°	278.7	282.9	280.1	280.8	279.4
72.5°	228.2	230.3	227.5	227.5	226.1
75°	177.6	179.0	176.2	176.9	174.8
77.5°	127.8	129.9	127.1	127.8	127.1
80°	85.7	86.4	84.2	84.9	83.5
82.5°	49.8	50.5	49.8	49.1	48.4
85°	22.5	23.2	22.5	22.5	21.8
87.5°	5.6	5.6	5.6	5.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)