

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: P973909

Luminaire Tested: FLR2-22-35HE-L840-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973909
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-L840-CP250
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

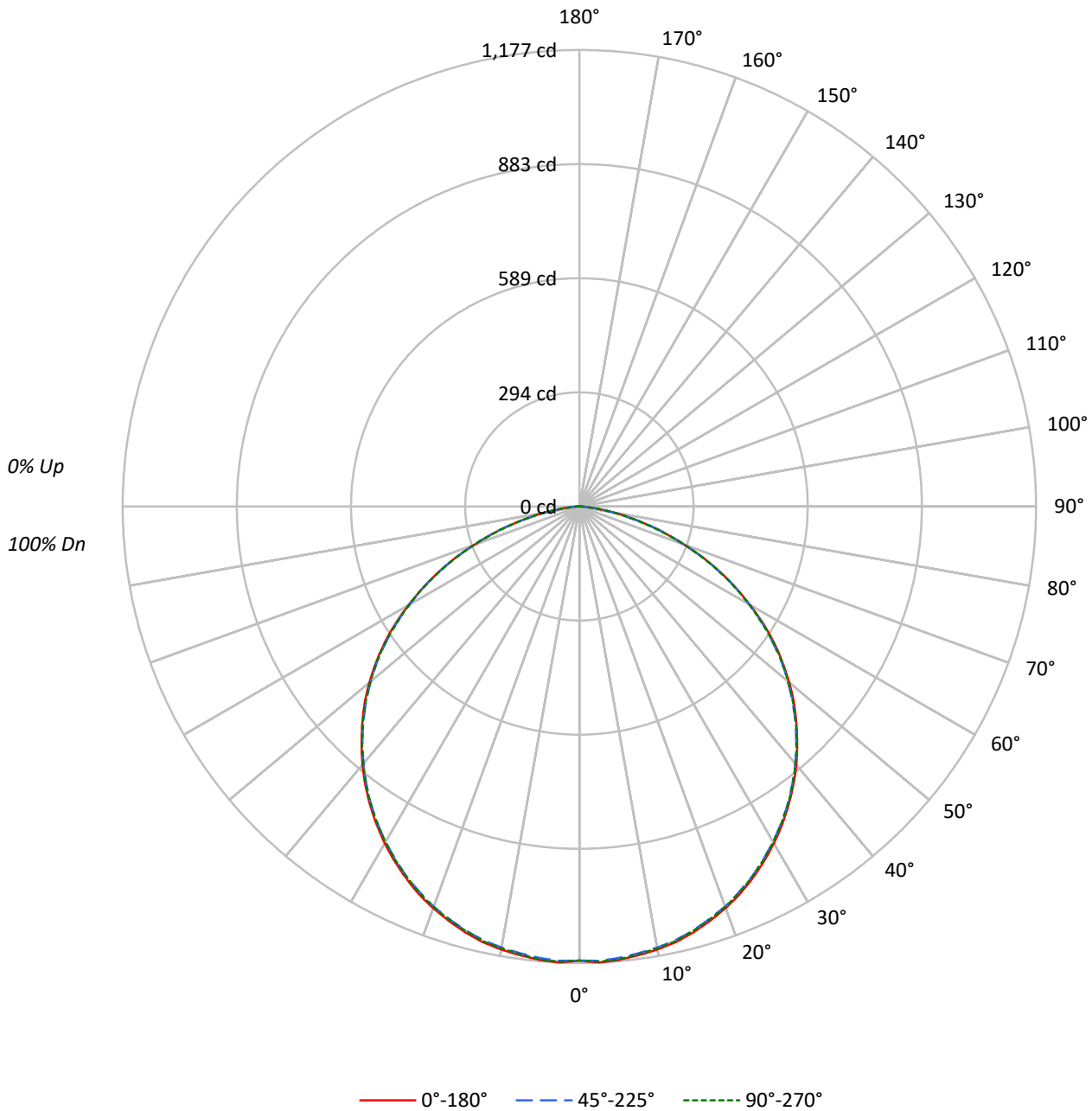
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3274.0 lumens
Efficiency: N/A
Efficacy: 120.4 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): 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°	3150	3150	3150
5°	3170	3157	3166
10°	3169	3155	3161
15°	3167	3153	3157
20°	3156	3143	3147
25°	3139	3126	3128
30°	3117	3103	3105
35°	3088	3076	3079
40°	3056	3041	3043
45°	3011	2997	3002
50°	2958	2936	2943
55°	2874	2850	2860
60°	2732	2721	2721
65°	2551	2546	2537
70°	2259	2270	2264
75°	1903	1887	1873
80°	1367	1345	1334
85°	713	713	692

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3011 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.9	3.4
10°-20°	318.8	9.7
20°-30°	484.5	14.8
30°-40°	585.6	17.9
40°-50°	607.8	18.6
50°-60°	543.4	16.6
60°-70°	395.1	12.1
70°-80°	194.3	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°	914.1	27.9
0°-40°	1499.7	45.8
0°-60°	2650.9	81.0
0°-90°	3274.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3274.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1171	1171	1171	1171	1171	
5°	1174	1160	1169	1164	1172	112
15°	1137	1124	1132	1129	1133	321
25°	1057	1046	1053	1051	1054	487
35°	940	934	936	937	937	588
45°	791	788	788	789	789	610
55°	612	609	607	609	610	546
65°	401	402	400	400	398	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°	1170.7	1170.7	1170.7	1170.7	1170.7
2.5°	1177.2	1163.5	1172.2	1167.1	1175.1
5°	1173.6	1159.9	1168.6	1164.2	1172.2
7.5°	1167.1	1153.4	1162.1	1157.7	1164.2
10°	1159.9	1145.4	1154.8	1150.5	1157.0
12.5°	1150.5	1136.8	1145.4	1141.8	1147.6
15°	1136.8	1123.7	1131.7	1128.8	1133.1
17.5°	1120.1	1107.1	1115.1	1112.9	1116.5
20°	1102.0	1089.7	1097.7	1095.5	1099.1
22.5°	1081.8	1068.8	1076.0	1074.6	1077.5
25°	1057.2	1045.6	1052.9	1050.7	1053.6
27.5°	1031.2	1020.3	1026.1	1026.1	1027.6
30°	1003.0	992.8	998.6	998.6	999.4
32.5°	972.6	964.6	968.3	969.0	969.0
35°	940.1	933.6	936.4	937.2	937.2
37.5°	906.1	899.6	901.7	903.2	903.2
40°	869.9	864.1	865.6	867.0	866.3
42.5°	830.9	826.5	827.3	828.7	828.7
45°	791.1	787.5	787.5	788.9	788.9
47.5°	750.6	747.0	745.5	747.0	747.0
50°	706.5	702.9	701.4	702.9	702.9
52.5°	660.2	656.6	656.6	656.6	657.3
55°	612.5	608.9	607.4	608.9	609.6
57.5°	561.9	560.4	558.3	559.0	556.8
60°	507.6	507.6	505.5	506.9	505.5
62.5°	454.8	456.3	454.1	454.1	452.7
65°	400.6	402.1	399.9	399.9	398.4
67.5°	344.9	347.1	344.2	344.2	342.8
70°	287.1	291.4	288.5	289.2	287.8
72.5°	235.0	237.2	234.3	234.3	232.8
75°	183.0	184.4	181.5	182.2	180.1
77.5°	131.6	133.8	130.9	131.6	130.9
80°	88.2	88.9	86.8	87.5	86.1
82.5°	51.3	52.1	51.3	50.6	49.9
85°	23.1	23.9	23.1	23.1	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)