

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: P973903

Luminaire Tested: FLR2-22-35HE-L840-CP187

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973903
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-CP187
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

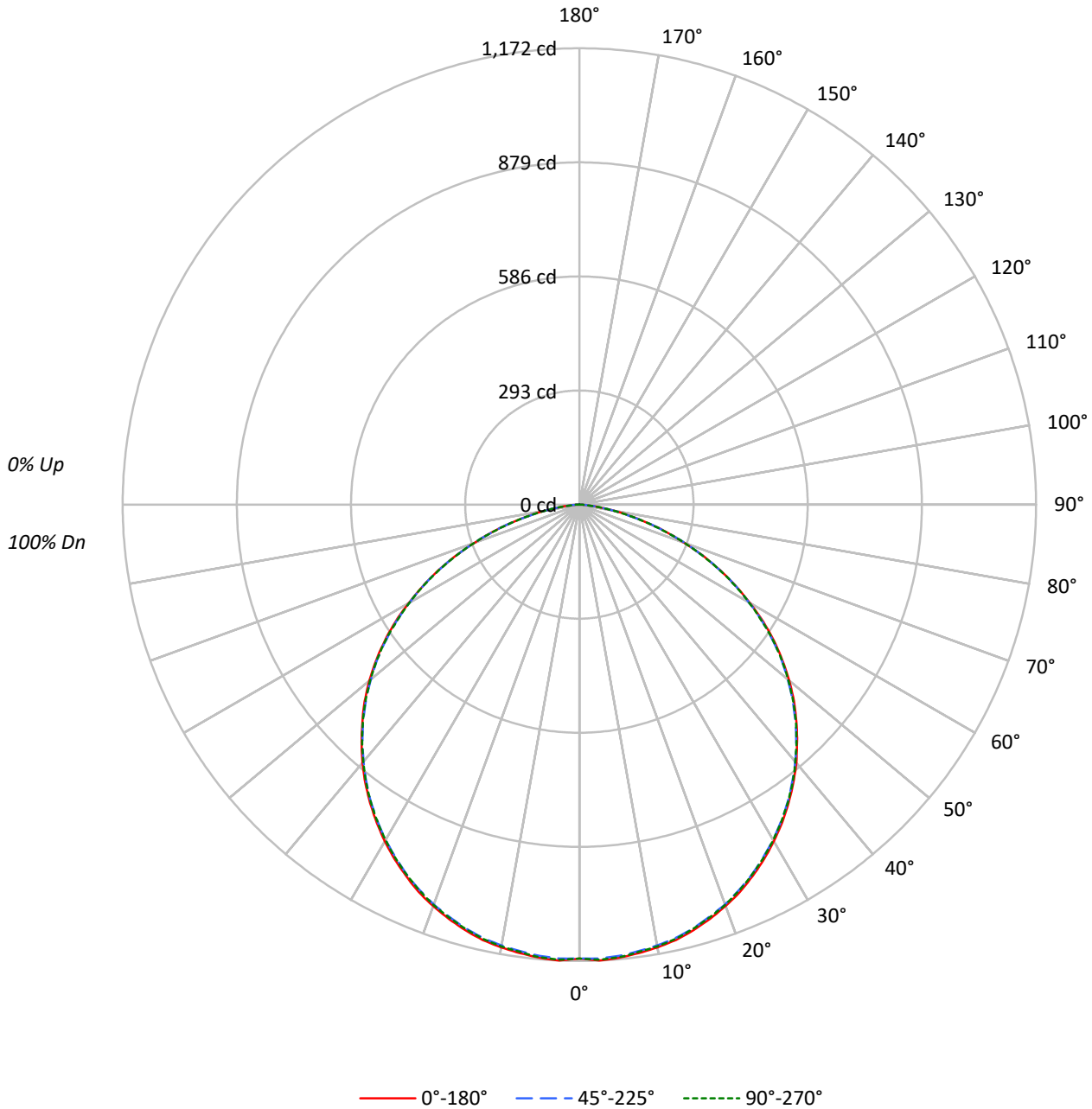
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3259.6 lumens
Efficiency: N/A
Efficacy: 119.8 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°	3137	3137	3137
5°	3156	3143	3152
10°	3155	3142	3148
15°	3153	3139	3143
20°	3142	3130	3134
25°	3125	3112	3114
30°	3103	3089	3092
35°	3075	3063	3065
40°	3042	3027	3030
45°	2997	2984	2989
50°	2945	2923	2930
55°	2861	2837	2847
60°	2720	2708	2708
65°	2539	2535	2526
70°	2249	2260	2254
75°	1893	1879	1864
80°	1361	1339	1328
85°	710	710	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2997 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.4	3.4
10°-20°	317.4	9.7
20°-30°	482.3	14.8
30°-40°	583.0	17.9
40°-50°	605.1	18.6
50°-60°	541.0	16.6
60°-70°	393.3	12.1
70°-80°	193.4	5.9
80°-90°	33.6	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°	910.1	27.9
0°-40°	1493.1	45.8
0°-60°	2639.2	81.0
0°-90°	3259.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1168	1155	1163	1159	1167	111
15°	1132	1119	1127	1124	1128	319
25°	1052	1041	1048	1046	1049	485
35°	936	929	932	933	933	586
45°	788	784	784	785	785	608
55°	610	606	605	606	607	544
65°	399	400	398	398	397	393
75°	182	184	181	181	179	193
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°	1165.6	1165.6	1165.6	1165.6	1165.6
2.5°	1172.1	1158.4	1167.0	1162.0	1169.9
5°	1168.5	1154.8	1163.4	1159.1	1167.0
7.5°	1162.0	1148.3	1156.9	1152.6	1159.1
10°	1154.8	1140.4	1149.7	1145.4	1151.9
12.5°	1145.4	1131.7	1140.4	1136.8	1142.5
15°	1131.7	1118.8	1126.7	1123.8	1128.1
17.5°	1115.2	1102.2	1110.1	1108.0	1111.6
20°	1097.2	1084.9	1092.9	1090.7	1094.3
22.5°	1077.0	1064.1	1071.3	1069.8	1072.7
25°	1052.5	1041.0	1048.2	1046.1	1048.9
27.5°	1026.6	1015.8	1021.6	1021.6	1023.0
30°	998.6	988.5	994.2	994.2	995.0
32.5°	968.3	960.4	964.0	964.7	964.7
35°	935.9	929.4	932.3	933.0	933.0
37.5°	902.1	895.6	897.8	899.2	899.2
40°	866.1	860.3	861.8	863.2	862.5
42.5°	827.2	822.9	823.6	825.0	825.0
45°	787.6	784.0	784.0	785.4	785.4
47.5°	747.3	743.7	742.3	743.7	743.7
50°	703.4	699.8	698.3	699.8	699.8
52.5°	657.3	653.7	653.7	653.7	654.4
55°	609.8	606.2	604.7	606.2	606.9
57.5°	559.4	557.9	555.8	556.5	554.4
60°	505.4	505.4	503.2	504.7	503.2
62.5°	452.8	454.3	452.1	452.1	450.7
65°	398.8	400.3	398.1	398.1	396.7
67.5°	343.4	345.6	342.7	342.7	341.2
70°	285.8	290.1	287.3	288.0	286.5
72.5°	234.0	236.1	233.3	233.3	231.8
75°	182.1	183.6	180.7	181.4	179.3
77.5°	131.0	133.2	130.3	131.0	130.3
80°	87.8	88.6	86.4	87.1	85.7
82.5°	51.1	51.8	51.1	50.4	49.7
85°	23.0	23.8	23.0	23.0	22.3
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)