

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: P974881

Luminaire Tested: FLR2-24-35HE-L840-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974881
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-24-35HE-L840-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

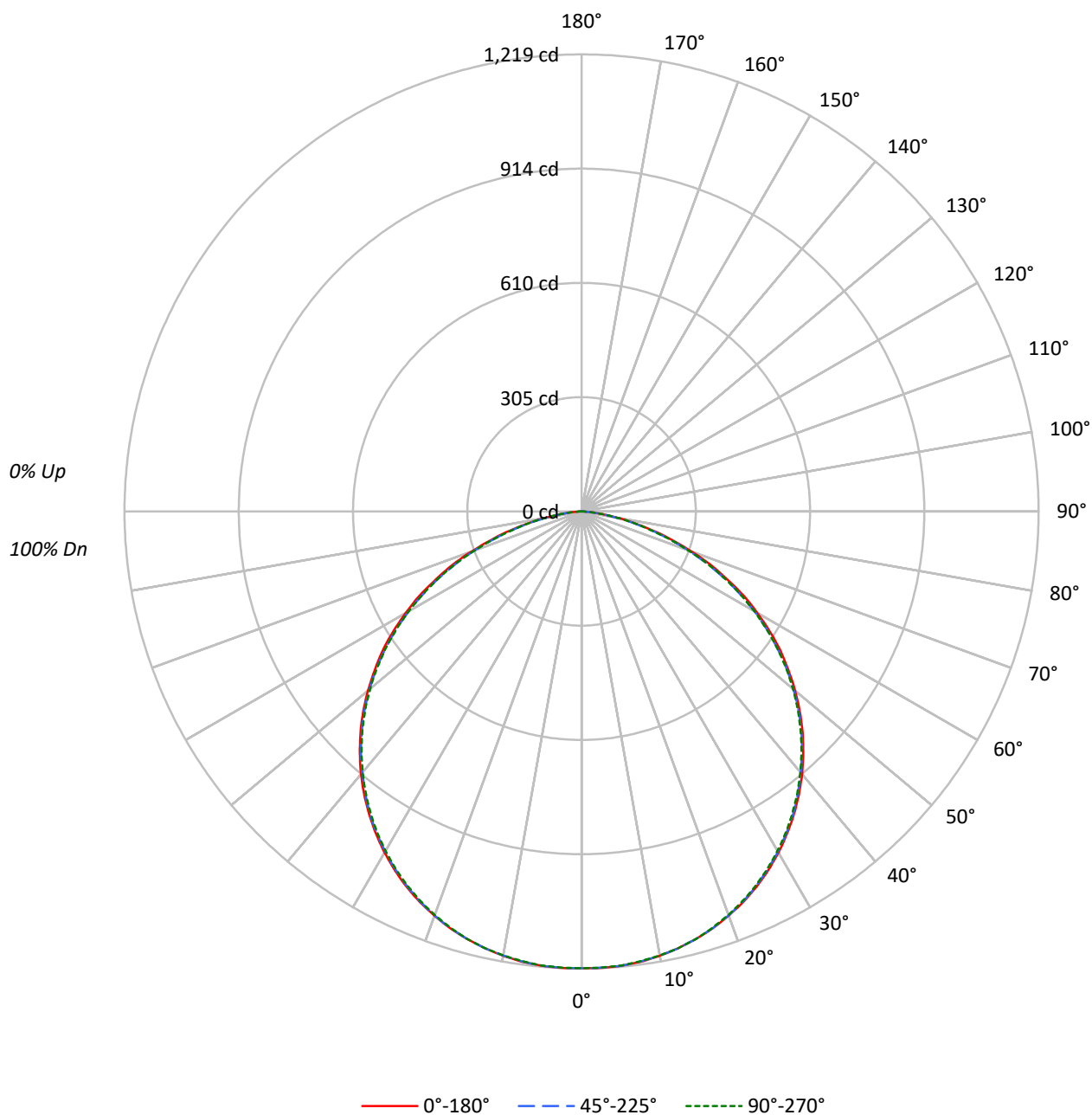
Lumens per Lamp: N/A
Luminaire Lumens: 3444.1 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
Input Voltage (V):
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	89	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	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	38	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	39	33	29	27		27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1640	1640	1640
5°	1643	1643	1642
10°	1644	1643	1643
15°	1644	1644	1644
20°	1643	1642	1640
25°	1640	1636	1634
30°	1632	1628	1624
35°	1622	1617	1612
40°	1607	1597	1595
45°	1587	1577	1572
50°	1557	1545	1540
55°	1520	1498	1496
60°	1457	1431	1431
65°	1363	1331	1335
70°	1227	1188	1185
75°	1030	989	984
80°	752	715	745
85°	425	392	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1587 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	3.4
10°-20°	333.2	9.7
20°-30°	508.1	14.8
30°-40°	615.5	17.9
40°-50°	639.4	18.6
50°-60°	572.0	16.6
60°-70°	416.9	12.1
70°-80°	206.5	6.0
80°-90°	36.9	1.1
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°	956.9	27.8
0°-40°	1572.5	45.7
0°-60°	2783.9	80.8
0°-90°	3444.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3444.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1216	1217	1216	1216	1216	116
15°	1180	1180	1180	1181	1180	333
25°	1104	1103	1102	1102	1100	509
35°	987	986	985	983	981	618
45°	834	832	829	827	826	643
55°	648	643	639	639	638	577
65°	428	425	418	420	419	424
75°	198	195	190	194	189	211
85°	28	25	25	26	26	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1218.6	1218.6	1218.6	1218.6	1218.6
2.5°	1218.6	1218.1	1218.1	1218.6	1217.7
5°	1216.4	1216.8	1216.4	1216.4	1215.5
7.5°	1211.6	1211.2	1210.7	1211.2	1209.8
10°	1203.3	1203.3	1202.8	1203.3	1202.4
12.5°	1193.2	1193.2	1193.2	1193.7	1193.2
15°	1180.5	1180.1	1180.1	1181.0	1180.1
17.5°	1165.7	1165.2	1165.2	1164.8	1163.9
20°	1147.3	1147.3	1146.9	1146.4	1145.1
22.5°	1127.6	1127.2	1125.9	1125.9	1124.1
25°	1104.5	1103.2	1102.3	1101.8	1100.5
27.5°	1079.1	1077.4	1076.0	1075.2	1073.9
30°	1050.7	1048.9	1047.6	1046.3	1045.4
32.5°	1020.1	1019.2	1017.0	1016.6	1014.8
35°	987.3	986.0	984.7	982.9	981.2
37.5°	952.3	951.0	947.9	947.1	945.7
40°	915.1	913.4	909.5	909.5	908.1
42.5°	875.4	873.6	871.0	869.2	868.4
45°	833.8	832.1	829.0	827.3	826.4
47.5°	789.7	788.3	784.8	783.5	782.2
50°	743.7	742.0	738.1	737.2	735.9
52.5°	695.6	694.8	689.5	689.1	687.8
55°	648.0	643.2	638.8	638.8	637.9
57.5°	595.5	592.0	586.3	586.3	585.5
60°	541.3	538.2	531.7	532.6	531.7
62.5°	488.4	481.8	475.7	478.3	476.2
65°	428.1	424.6	418.0	419.7	419.3
67.5°	373.0	366.4	360.3	363.8	362.0
70°	311.8	308.3	302.1	305.6	301.3
72.5°	254.0	251.0	244.9	248.8	244.4
75°	198.1	195.0	190.2	193.7	189.3
77.5°	145.2	143.0	138.6	142.1	143.0
80°	97.1	94.4	92.3	95.3	96.2
82.5°	56.8	55.1	54.2	54.7	56.8
85°	27.5	25.4	25.4	25.8	25.8
87.5°	7.4	6.6	7.4	7.9	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)