

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: P974784

Luminaire Tested: FLR2-24-45HE-L935-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974784
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: FLR2-24-45HE-L935-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

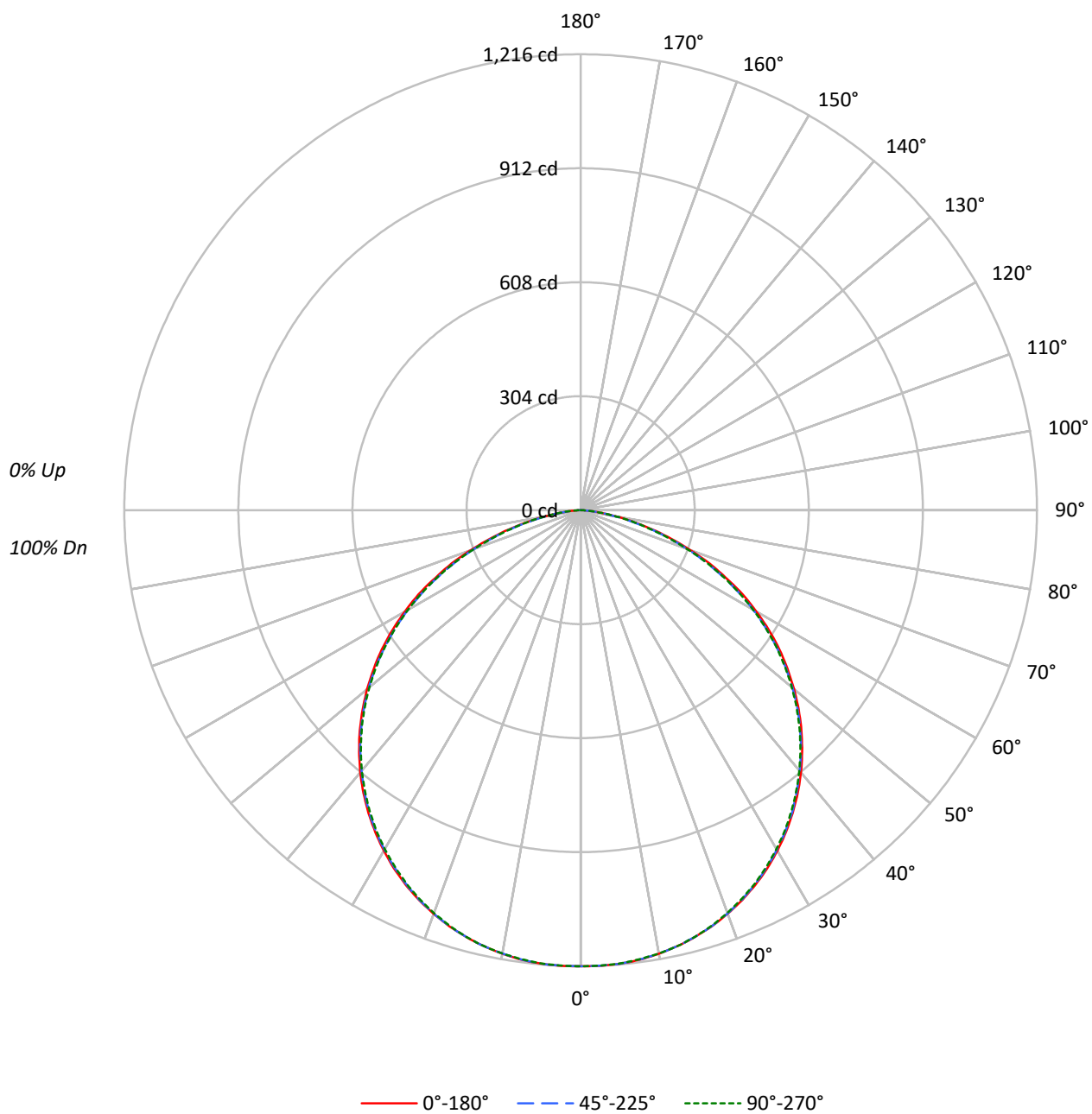
Lumens per Lamp: N/A
Luminaire Lumens: 3438.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.7
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°	1637	1637	1637
5°	1640	1640	1639
10°	1641	1641	1640
15°	1642	1641	1641
20°	1640	1639	1637
25°	1637	1634	1631
30°	1630	1625	1622
35°	1619	1615	1609
40°	1605	1595	1592
45°	1584	1575	1570
50°	1554	1542	1538
55°	1517	1496	1494
60°	1454	1428	1428
65°	1360	1329	1333
70°	1224	1186	1183
75°	1028	987	983
80°	751	714	744
85°	425	391	398

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1584 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.5	3.4
10°-20°	332.7	9.7
20°-30°	507.2	14.8
30°-40°	614.5	17.9
40°-50°	638.3	18.6
50°-60°	571.0	16.6
60°-70°	416.2	12.1
70°-80°	206.1	6.0
80°-90°	36.8	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°	955.3	27.8
0°-40°	1569.8	45.7
0°-60°	2779.1	80.8
0°-90°	3438.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1214	1215	1214	1214	1214	115
15°	1178	1178	1178	1179	1178	333
25°	1103	1101	1100	1100	1099	508
35°	986	984	983	981	980	616
45°	832	831	828	826	825	641
55°	647	642	638	638	637	576
65°	427	424	417	419	419	424
75°	198	195	190	193	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°	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1216.5	1216.1	1216.1	1216.5	1215.6
5°	1214.3	1214.8	1214.3	1214.3	1213.5
7.5°	1209.5	1209.1	1208.7	1209.1	1207.8
10°	1201.2	1201.2	1200.8	1201.2	1200.4
12.5°	1191.2	1191.2	1191.2	1191.6	1191.2
15°	1178.5	1178.1	1178.1	1179.0	1178.1
17.5°	1163.7	1163.3	1163.3	1162.8	1162.0
20°	1145.4	1145.4	1144.9	1144.5	1143.2
22.5°	1125.7	1125.3	1124.0	1124.0	1122.2
25°	1102.6	1101.3	1100.4	1100.0	1098.7
27.5°	1077.3	1075.5	1074.2	1073.3	1072.0
30°	1048.9	1047.2	1045.8	1044.5	1043.7
32.5°	1018.3	1017.5	1015.3	1014.9	1013.1
35°	985.6	984.3	983.0	981.2	979.5
37.5°	950.7	949.4	946.3	945.4	944.1
40°	913.6	911.8	907.9	907.9	906.6
42.5°	873.9	872.1	869.5	867.8	866.9
45°	832.4	830.7	827.6	825.8	825.0
47.5°	788.3	787.0	783.5	782.2	780.9
50°	742.5	740.7	736.8	735.9	734.6
52.5°	694.5	693.6	688.4	687.9	686.6
55°	646.9	642.1	637.7	637.7	636.8
57.5°	594.5	591.0	585.3	585.3	584.5
60°	540.4	537.3	530.8	531.7	530.8
62.5°	487.6	481.0	474.9	477.5	475.3
65°	427.3	423.8	417.3	419.0	418.6
67.5°	372.3	365.8	359.7	363.2	361.4
70°	311.2	307.7	301.6	305.1	300.7
72.5°	253.6	250.5	244.4	248.4	244.0
75°	197.7	194.7	189.9	193.4	189.0
77.5°	144.9	142.7	138.4	141.9	142.7
80°	96.9	94.3	92.1	95.2	96.0
82.5°	56.7	55.0	54.1	54.6	56.7
85°	27.5	25.3	25.3	25.8	25.8
87.5°	7.4	6.5	7.4	7.9	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)