

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: P975092

Luminaire Tested: FLR2-24-45HE-L950-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975092
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-L950-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

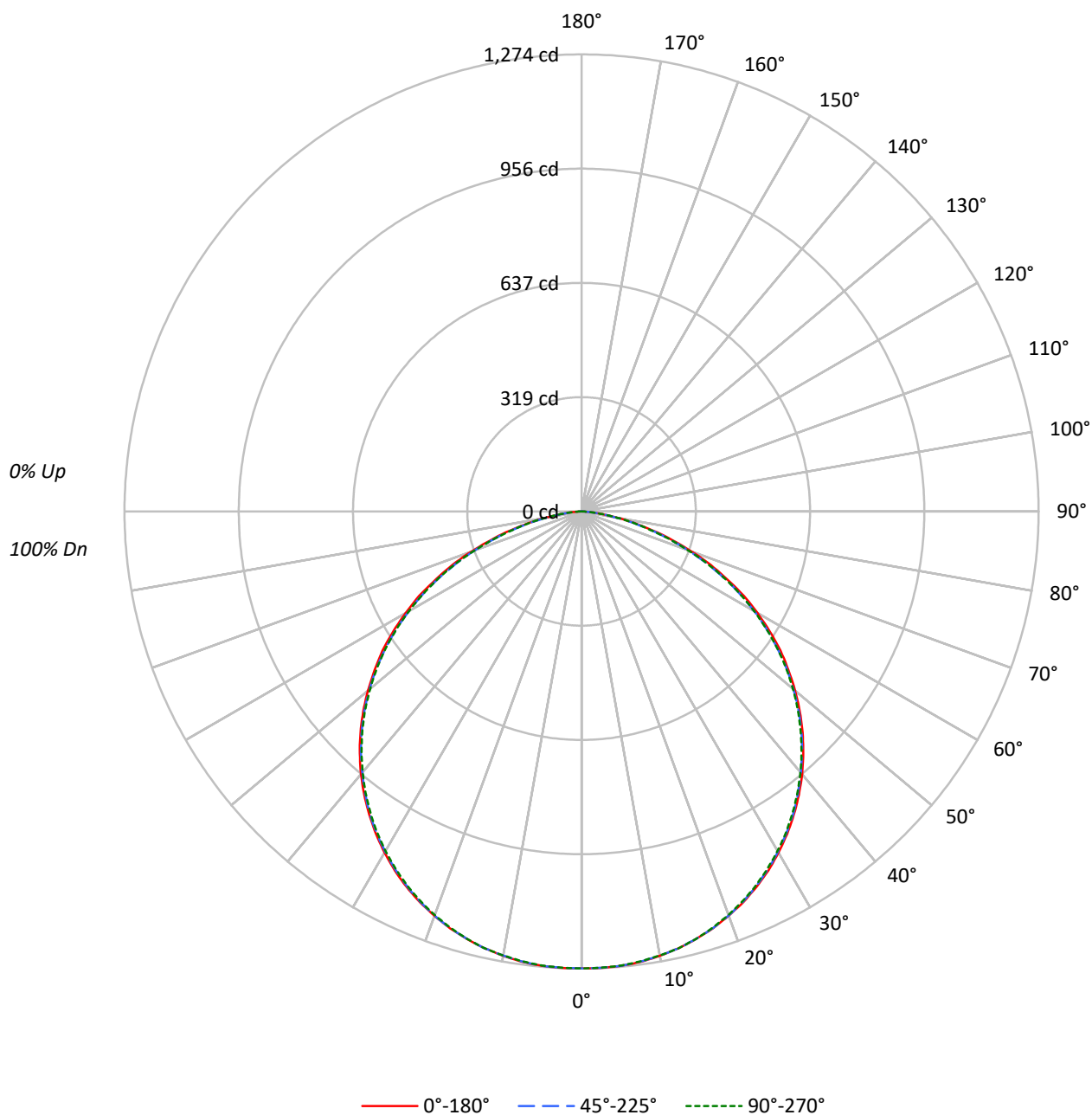
Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1714	1714	1714
5°	1717	1717	1716
10°	1718	1718	1717
15°	1719	1718	1718
20°	1717	1716	1714
25°	1714	1711	1708
30°	1706	1701	1698
35°	1695	1691	1685
40°	1680	1670	1667
45°	1658	1649	1644
50°	1627	1615	1610
55°	1589	1566	1564
60°	1523	1496	1496
65°	1424	1391	1395
70°	1282	1242	1239
75°	1076	1033	1029
80°	786	747	779
85°	445	409	417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.4
10°-20°	348.3	9.7
20°-30°	531.1	14.8
30°-40°	643.4	17.9
40°-50°	668.3	18.6
50°-60°	597.9	16.6
60°-70°	435.8	12.1
70°-80°	215.8	6.0
80°-90°	38.6	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°	1000.3	27.8
0°-40°	1643.7	45.7
0°-60°	2909.9	80.8
0°-90°	3600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1274	1274	1274	1274	1274	
5°	1272	1272	1272	1272	1271	121
15°	1234	1234	1234	1234	1234	348
25°	1154	1153	1152	1152	1150	532
35°	1032	1031	1029	1027	1026	645
45°	872	870	866	865	864	672
55°	677	672	668	668	667	603
65°	447	444	437	439	438	444
75°	207	204	199	202	198	221
85°	29	26	26	27	27	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1273.8	1273.8	1273.8	1273.8	1273.8
2.5°	1273.8	1273.3	1273.3	1273.8	1272.8
5°	1271.5	1271.9	1271.5	1271.5	1270.6
7.5°	1266.4	1266.0	1265.5	1266.0	1264.6
10°	1257.8	1257.8	1257.3	1257.8	1256.8
12.5°	1247.3	1247.3	1247.3	1247.7	1247.3
15°	1234.0	1233.5	1233.5	1234.5	1233.5
17.5°	1218.5	1218.0	1218.0	1217.5	1216.6
20°	1199.3	1199.3	1198.8	1198.3	1197.0
22.5°	1178.7	1178.2	1176.9	1176.9	1175.0
25°	1154.5	1153.1	1152.2	1151.7	1150.4
27.5°	1128.0	1126.1	1124.8	1123.9	1122.5
30°	1098.3	1096.4	1095.1	1093.7	1092.8
32.5°	1066.3	1065.4	1063.1	1062.6	1060.8
35°	1032.0	1030.6	1029.2	1027.4	1025.6
37.5°	995.4	994.1	990.9	989.9	988.6
40°	956.6	954.7	950.6	950.6	949.3
42.5°	915.0	913.2	910.4	908.6	907.7
45°	871.6	869.7	866.5	864.7	863.8
47.5°	825.4	824.0	820.4	819.0	817.6
50°	777.4	775.6	771.5	770.6	769.2
52.5°	727.1	726.2	720.7	720.3	718.9
55°	677.3	672.3	667.7	667.7	666.8
57.5°	622.5	618.8	612.9	612.9	612.0
60°	565.8	562.6	555.8	556.7	555.8
62.5°	510.5	503.7	497.3	500.0	497.7
65°	447.4	443.8	436.9	438.8	438.3
67.5°	389.9	383.0	376.6	380.3	378.4
70°	325.9	322.2	315.8	319.5	314.9
72.5°	265.5	262.3	255.9	260.1	255.5
75°	207.0	203.8	198.8	202.5	197.9
77.5°	151.7	149.5	144.9	148.5	149.5
80°	101.5	98.7	96.4	99.6	100.5
82.5°	59.4	57.6	56.7	57.1	59.4
85°	28.8	26.5	26.5	27.0	27.0
87.5°	7.8	6.9	7.8	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)