

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: P975047

Luminaire Tested: FLR2-24-40HE-L950-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P975047
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: FLR2-24-40HE-L950-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

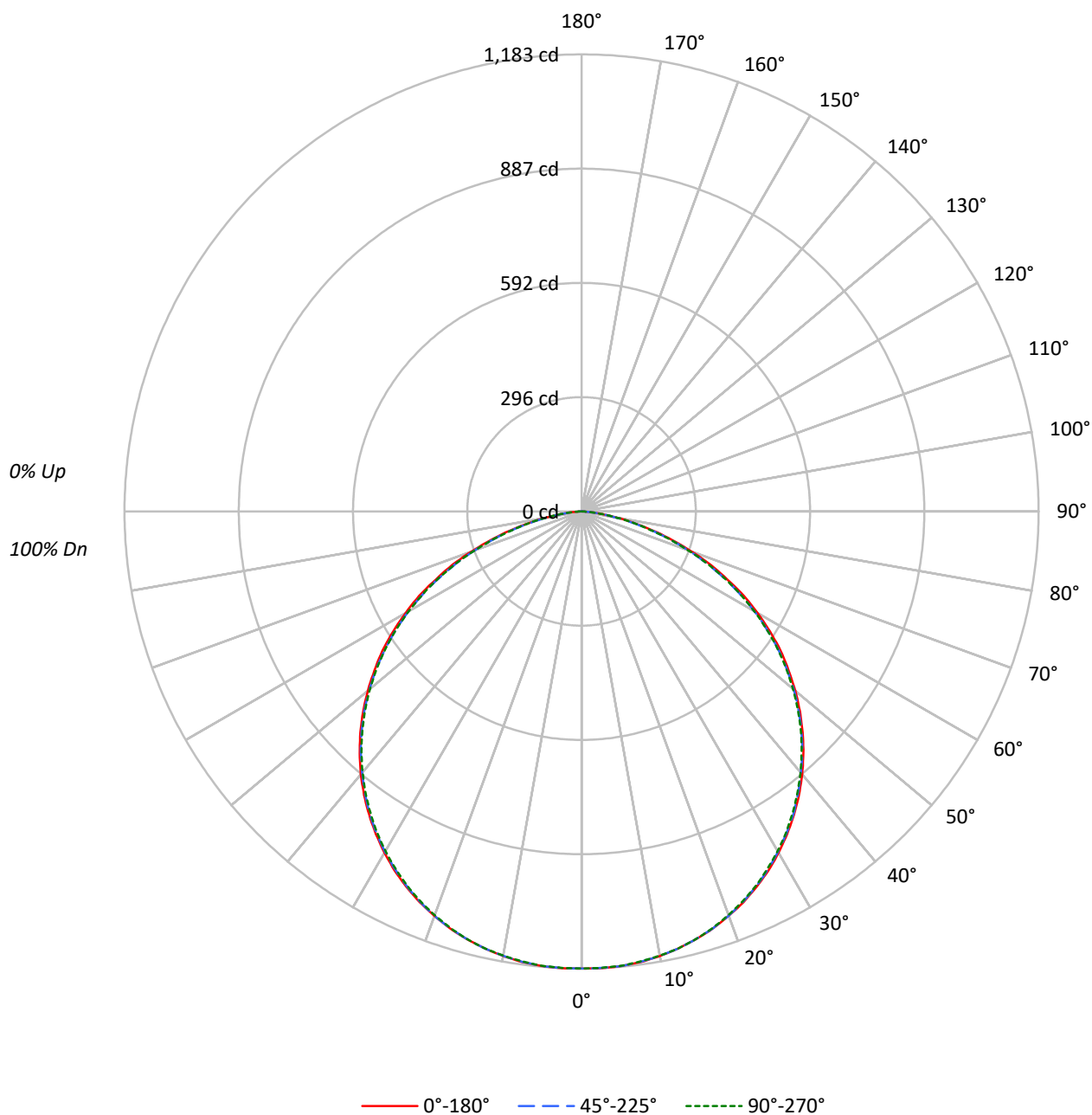
Lumens per Lamp: N/A
Luminaire Lumens: 3344.2 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.9
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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	73	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	62	62	60
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	53	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	44
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	38
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	36	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	32	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	29	29	27
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1592	1592	1592
5°	1595	1595	1594
10°	1596	1596	1595
15°	1597	1596	1596
20°	1595	1594	1592
25°	1592	1589	1586
30°	1585	1580	1577
35°	1575	1570	1565
40°	1561	1551	1549
45°	1541	1532	1527
50°	1512	1500	1496
55°	1476	1455	1453
60°	1414	1389	1389
65°	1323	1292	1296
70°	1191	1154	1151
75°	1000	960	955
80°	731	694	724
85°	412	380	386

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1541 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.3	3.4
10°-20°	323.6	9.7
20°-30°	493.3	14.8
30°-40°	597.7	17.9
40°-50°	620.9	18.6
50°-60°	555.4	16.6
60°-70°	404.8	12.1
70°-80°	200.5	6.0
80°-90°	35.8	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°	929.2	27.8
0°-40°	1526.9	45.7
0°-60°	2703.1	80.8
0°-90°	3344.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1183	1183	1183	1183	1183	
5°	1181	1182	1181	1181	1180	112
15°	1146	1146	1146	1147	1146	324
25°	1072	1071	1070	1070	1069	494
35°	959	957	956	954	953	600
45°	810	808	805	803	802	624
55°	629	624	620	620	619	561
65°	416	412	406	408	407	412
75°	192	189	185	188	184	205
85°	27	25	25	25	25	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1183.3	1183.3	1183.3	1183.3	1183.3
2.5°	1183.3	1182.8	1182.8	1183.3	1182.4
5°	1181.1	1181.6	1181.1	1181.1	1180.3
7.5°	1176.5	1176.0	1175.6	1176.0	1174.8
10°	1168.4	1168.4	1168.0	1168.4	1167.5
12.5°	1158.6	1158.6	1158.6	1159.1	1158.6
15°	1146.3	1145.9	1145.9	1146.7	1145.9
17.5°	1131.9	1131.5	1131.5	1131.0	1130.2
20°	1114.0	1114.0	1113.6	1113.2	1111.9
22.5°	1094.9	1094.5	1093.2	1093.2	1091.5
25°	1072.4	1071.2	1070.3	1069.9	1068.6
27.5°	1047.8	1046.1	1044.8	1044.0	1042.7
30°	1020.2	1018.5	1017.2	1016.0	1015.1
32.5°	990.5	989.7	987.5	987.1	985.4
35°	958.7	957.4	956.1	954.4	952.7
37.5°	924.7	923.4	920.4	919.6	918.3
40°	888.6	886.9	883.1	883.1	881.8
42.5°	850.0	848.3	845.7	844.0	843.2
45°	809.6	807.9	805.0	803.3	802.4
47.5°	766.8	765.5	762.1	760.8	759.5
50°	722.2	720.5	716.7	715.8	714.5
52.5°	675.5	674.6	669.5	669.1	667.8
55°	629.2	624.5	620.3	620.3	619.4
57.5°	578.3	574.9	569.3	569.3	568.5
60°	525.6	522.6	516.3	517.1	516.3
62.5°	474.2	467.9	461.9	464.5	462.3
65°	415.6	412.2	405.9	407.6	407.2
67.5°	362.2	355.8	349.8	353.2	351.5
70°	302.7	299.3	293.4	296.8	292.5
72.5°	246.7	243.7	237.8	241.6	237.3
75°	192.3	189.4	184.7	188.1	183.8
77.5°	141.0	138.8	134.6	138.0	138.8
80°	94.3	91.7	89.6	92.6	93.4
82.5°	55.2	53.5	52.6	53.1	55.2
85°	26.7	24.6	24.6	25.0	25.0
87.5°	7.2	6.4	7.2	7.6	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)