

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: P974815

Luminaire Tested: FLR2-24-35HE-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974815
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-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

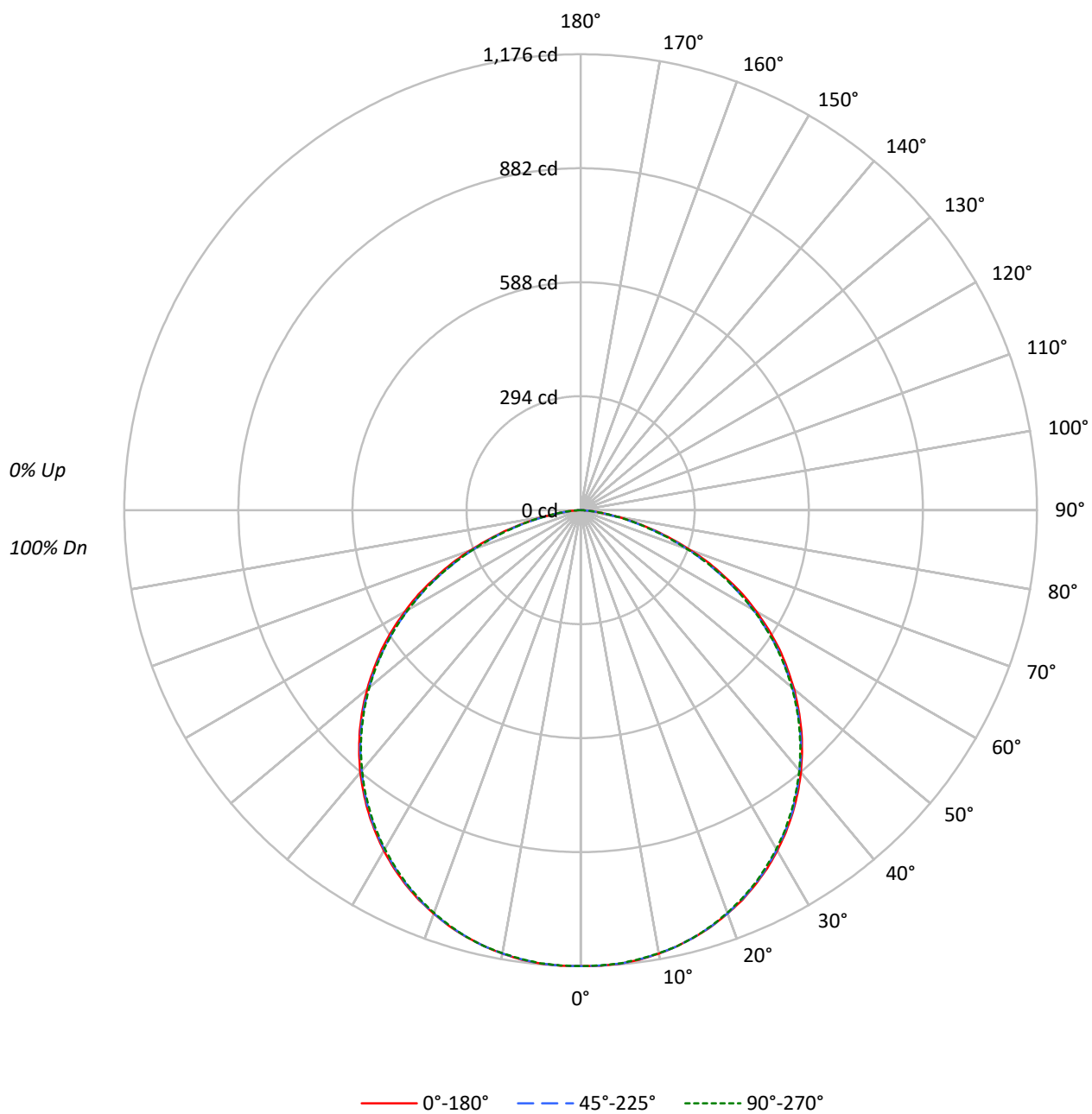
Lumens per Lamp: N/A
Luminaire Lumens: 3324.1 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1582	1582	1582
5°	1586	1586	1585
10°	1587	1586	1586
15°	1587	1587	1587
20°	1585	1585	1582
25°	1583	1579	1577
30°	1576	1571	1568
35°	1565	1561	1555
40°	1551	1542	1539
45°	1531	1522	1518
50°	1503	1491	1487
55°	1467	1446	1444
60°	1406	1381	1381
65°	1315	1284	1288
70°	1184	1147	1144
75°	994	954	950
80°	726	690	719
85°	411	378	384

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1531 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.4
10°-20°	321.6	9.7
20°-30°	490.4	14.8
30°-40°	594.1	17.9
40°-50°	617.1	18.6
50°-60°	552.1	16.6
60°-70°	402.3	12.1
70°-80°	199.3	6.0
80°-90°	35.6	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°	923.6	27.8
0°-40°	1517.7	45.7
0°-60°	2686.9	80.8
0°-90°	3324.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3324.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1174	1174	1174	1174	1173	112
15°	1139	1139	1139	1140	1139	322
25°	1066	1065	1064	1064	1062	491
35°	953	952	950	949	947	596
45°	805	803	800	798	798	620
55°	625	621	617	617	616	557
65°	413	410	403	405	405	410
75°	191	188	184	187	183	204
85°	27	24	24	25	25	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1176.1	1176.1	1176.1	1176.1	1176.1
2.5°	1176.1	1175.7	1175.7	1176.1	1175.3
5°	1174.0	1174.4	1174.0	1174.0	1173.2
7.5°	1169.4	1169.0	1168.5	1169.0	1167.7
10°	1161.4	1161.4	1160.9	1161.4	1160.5
12.5°	1151.7	1151.7	1151.7	1152.1	1151.7
15°	1139.4	1139.0	1139.0	1139.8	1139.0
17.5°	1125.1	1124.6	1124.6	1124.2	1123.4
20°	1107.3	1107.3	1106.9	1106.5	1105.2
22.5°	1088.4	1087.9	1086.7	1086.7	1085.0
25°	1066.0	1064.7	1063.9	1063.5	1062.2
27.5°	1041.5	1039.8	1038.6	1037.7	1036.4
30°	1014.1	1012.4	1011.1	1009.9	1009.0
32.5°	984.5	983.7	981.6	981.2	979.5
35°	952.9	951.6	950.4	948.7	947.0
37.5°	919.1	917.9	914.9	914.1	912.8
40°	883.3	881.6	877.8	877.8	876.5
42.5°	844.9	843.2	840.6	838.9	838.1
45°	804.8	803.1	800.1	798.4	797.6
47.5°	762.1	760.9	757.5	756.2	755.0
50°	717.8	716.1	712.3	711.5	710.2
52.5°	671.4	670.6	665.5	665.1	663.8
55°	625.4	620.8	616.6	616.6	615.7
57.5°	574.8	571.4	565.9	565.9	565.1
60°	522.4	519.5	513.2	514.0	513.2
62.5°	471.4	465.1	459.1	461.7	459.6
65°	413.1	409.8	403.4	405.1	404.7
67.5°	360.0	353.6	347.7	351.1	349.4
70°	300.9	297.5	291.6	295.0	290.8
72.5°	245.2	242.2	236.3	240.1	235.9
75°	191.2	188.2	183.6	186.9	182.7
77.5°	140.1	138.0	133.8	137.2	138.0
80°	93.7	91.2	89.0	92.0	92.8
82.5°	54.9	53.2	52.3	52.8	54.9
85°	26.6	24.5	24.5	24.9	24.9
87.5°	7.2	6.3	7.2	7.6	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)