

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: P974630

Luminaire Tested: FLR2-24-45HE-L930-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974630
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-L930-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

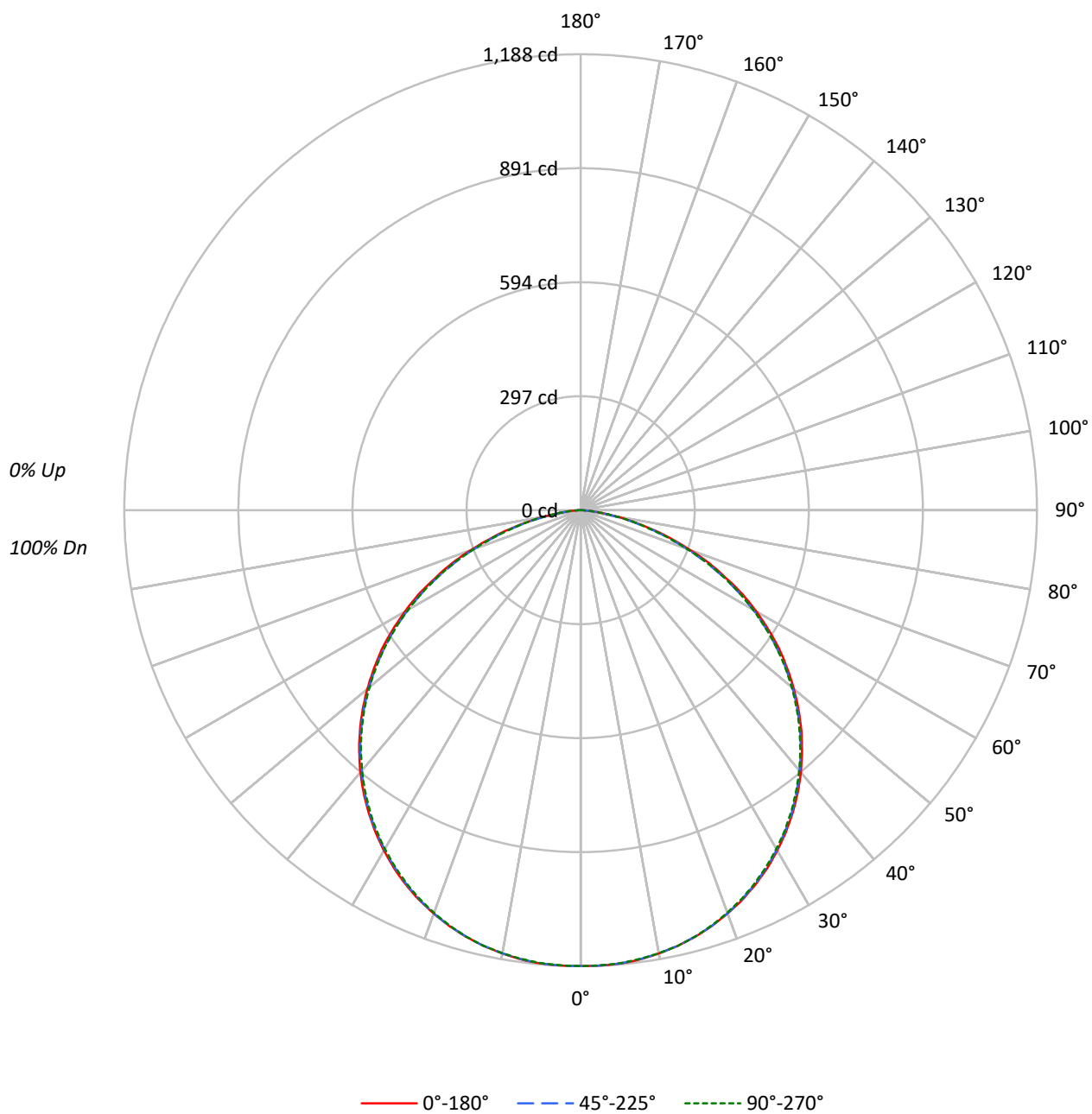
Lumens per Lamp: N/A
Luminaire Lumens: 3357.3 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	1598	1598	1598
5°	1602	1602	1600
10°	1603	1602	1601
15°	1603	1602	1602
20°	1601	1601	1598
25°	1598	1595	1593
30°	1591	1587	1583
35°	1581	1577	1571
40°	1567	1557	1555
45°	1547	1538	1533
50°	1518	1506	1501
55°	1482	1461	1459
60°	1420	1395	1395
65°	1329	1297	1301
70°	1196	1159	1155
75°	1004	964	960
80°	733	697	727
85°	415	381	387

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1547 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.8	3.4
10°-20°	324.8	9.7
20°-30°	495.3	14.8
30°-40°	600.0	17.9
40°-50°	623.3	18.6
50°-60°	557.6	16.6
60°-70°	406.4	12.1
70°-80°	201.3	6.0
80°-90°	36.0	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°	932.8	27.8
0°-40°	1532.9	45.7
0°-60°	2713.7	80.8
0°-90°	3357.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1188	1188	1188	1188	1188	
5°	1186	1186	1186	1186	1185	113
15°	1151	1150	1150	1151	1150	325
25°	1077	1075	1074	1074	1073	496
35°	962	961	960	958	956	602
45°	813	811	808	806	806	626
55°	632	627	623	623	622	563
65°	417	414	408	409	409	414
75°	193	190	185	189	185	206
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°	1187.9	1187.9	1187.9	1187.9	1187.9
2.5°	1187.9	1187.5	1187.5	1187.9	1187.0
5°	1185.8	1186.2	1185.8	1185.8	1184.9
7.5°	1181.1	1180.6	1180.2	1180.6	1179.4
10°	1173.0	1173.0	1172.5	1173.0	1172.1
12.5°	1163.2	1163.2	1163.2	1163.6	1163.2
15°	1150.8	1150.4	1150.4	1151.2	1150.4
17.5°	1136.3	1135.9	1135.9	1135.5	1134.6
20°	1118.4	1118.4	1118.0	1117.6	1116.3
22.5°	1099.2	1098.8	1097.5	1097.5	1095.8
25°	1076.6	1075.4	1074.5	1074.1	1072.8
27.5°	1051.9	1050.2	1048.9	1048.1	1046.8
30°	1024.2	1022.5	1021.2	1020.0	1019.1
32.5°	994.4	993.5	991.4	991.0	989.3
35°	962.4	961.1	959.9	958.2	956.4
37.5°	928.3	927.0	924.1	923.2	921.9
40°	892.1	890.4	886.5	886.5	885.3
42.5°	853.3	851.6	849.0	847.3	846.5
45°	812.8	811.1	808.1	806.4	805.6
47.5°	769.8	768.5	765.1	763.8	762.5
50°	725.0	723.3	719.5	718.6	717.3
52.5°	678.1	677.3	672.2	671.7	670.5
55°	631.7	627.0	622.7	622.7	621.9
57.5°	580.5	577.1	571.6	571.6	570.7
60°	527.7	524.7	518.3	519.1	518.3
62.5°	476.1	469.7	463.7	466.3	464.2
65°	417.3	413.9	407.5	409.2	408.7
67.5°	363.6	357.2	351.2	354.6	352.9
70°	303.9	300.5	294.5	297.9	293.7
72.5°	247.6	244.7	238.7	242.5	238.3
75°	193.1	190.1	185.4	188.8	184.6
77.5°	141.5	139.4	135.1	138.5	139.4
80°	94.6	92.1	89.9	92.9	93.8
82.5°	55.4	53.7	52.9	53.3	55.4
85°	26.9	24.7	24.7	25.1	25.1
87.5°	7.2	6.4	7.2	7.7	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)