

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: P974554

Luminaire Tested: FLR2-24-55HE-L830-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974554
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: FLR2-24-55HE-L830-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

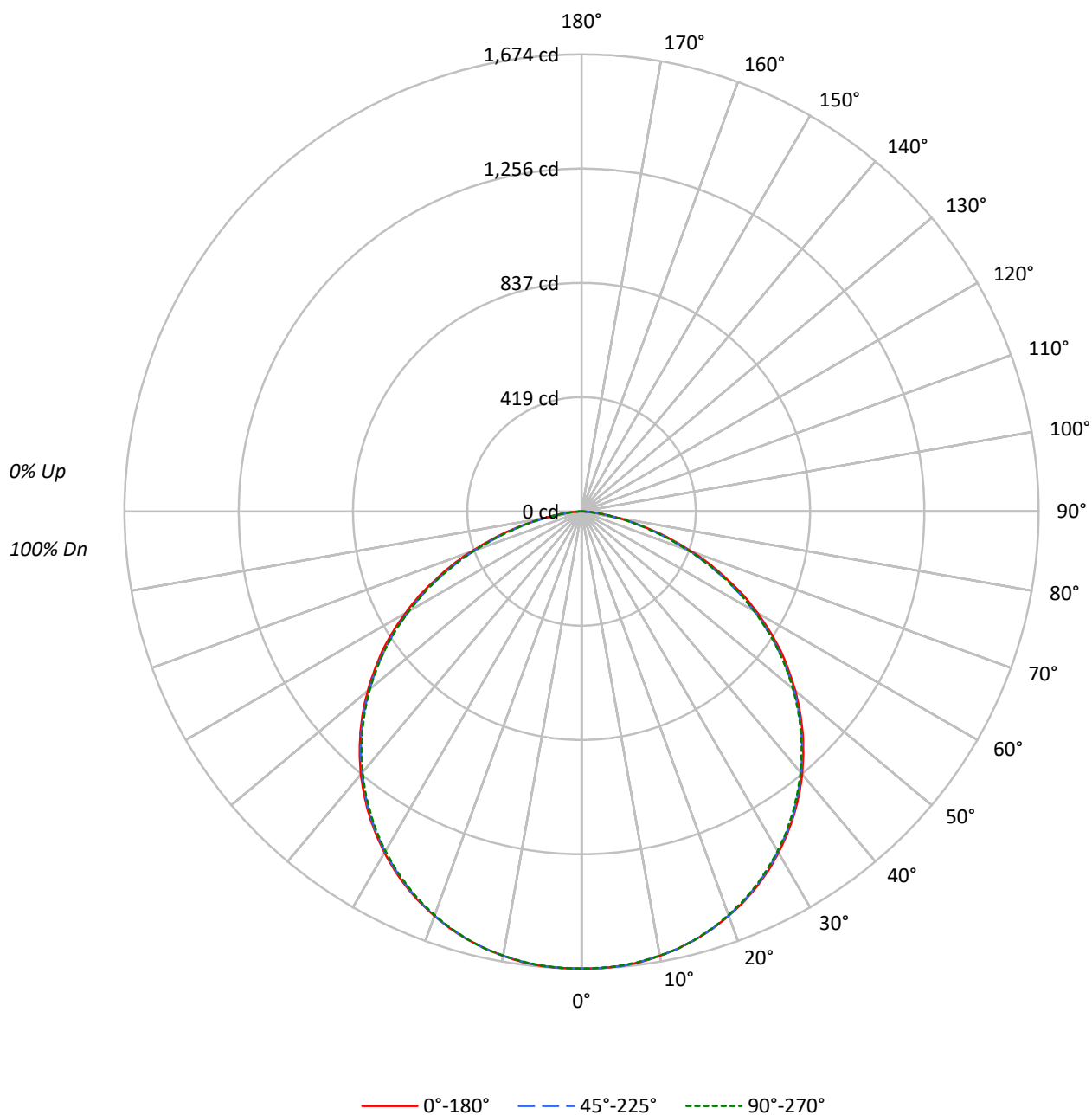
Lumens per Lamp: N/A
Luminaire Lumens: 4731.5 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.3
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°	2252	2252	2252
5°	2257	2257	2255
10°	2259	2258	2257
15°	2259	2258	2258
20°	2257	2256	2253
25°	2253	2248	2245
30°	2243	2236	2231
35°	2228	2222	2214
40°	2208	2194	2191
45°	2180	2167	2160
50°	2139	2122	2116
55°	2088	2059	2056
60°	2001	1965	1965
65°	1872	1828	1834
70°	1685	1633	1628
75°	1415	1358	1352
80°	1034	982	1024
85°	584	537	546

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2180 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.9	3.4
10°-20°	457.8	9.7
20°-30°	698.0	14.8
30°-40°	845.6	17.9
40°-50°	878.4	18.6
50°-60°	785.8	16.6
60°-70°	572.7	12.1
70°-80°	283.6	6.0
80°-90°	50.7	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°	1314.7	27.8
0°-40°	2160.3	45.7
0°-60°	3824.5	80.8
0°-90°	4731.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4731.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1671	1672	1671	1671	1670	159
15°	1622	1621	1621	1622	1621	458
25°	1517	1516	1514	1514	1512	699
35°	1356	1354	1353	1350	1348	848
45°	1146	1143	1139	1136	1135	883
55°	890	884	878	878	876	793
65°	588	583	574	577	576	583
75°	272	268	261	266	260	290
85°	38	35	35	35	35	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.1	1674.1	1674.1	1674.1	1674.1
2.5°	1674.1	1673.5	1673.5	1674.1	1672.9
5°	1671.1	1671.7	1671.1	1671.1	1669.9
7.5°	1664.5	1663.9	1663.3	1663.9	1662.1
10°	1653.1	1653.1	1652.5	1653.1	1651.9
12.5°	1639.3	1639.3	1639.3	1639.9	1639.3
15°	1621.8	1621.2	1621.2	1622.4	1621.2
17.5°	1601.4	1600.8	1600.8	1600.2	1599.0
20°	1576.2	1576.2	1575.6	1575.0	1573.2
22.5°	1549.2	1548.6	1546.8	1546.8	1544.4
25°	1517.3	1515.5	1514.3	1513.7	1511.9
27.5°	1482.5	1480.1	1478.3	1477.1	1475.3
30°	1443.4	1441.0	1439.2	1437.4	1436.2
32.5°	1401.4	1400.2	1397.2	1396.6	1394.2
35°	1356.3	1354.5	1352.7	1350.3	1347.9
37.5°	1308.3	1306.5	1302.3	1301.1	1299.3
40°	1257.2	1254.8	1249.4	1249.4	1247.6
42.5°	1202.6	1200.2	1196.6	1194.2	1193.0
45°	1145.5	1143.1	1138.9	1136.5	1135.3
47.5°	1084.8	1083.0	1078.2	1076.4	1074.6
50°	1021.8	1019.4	1013.9	1012.7	1010.9
52.5°	955.7	954.5	947.3	946.7	944.9
55°	890.2	883.6	877.6	877.6	876.4
57.5°	818.1	813.3	805.5	805.5	804.3
60°	743.6	739.4	730.4	731.6	730.4
62.5°	671.0	662.0	653.5	657.1	654.1
65°	588.1	583.3	574.3	576.7	576.1
67.5°	512.4	503.4	495.0	499.8	497.4
70°	428.3	423.5	415.1	419.9	413.9
72.5°	349.0	344.8	336.4	341.8	335.8
75°	272.1	267.9	261.3	266.1	260.1
77.5°	199.4	196.4	190.4	195.2	196.4
80°	133.4	129.7	126.7	130.9	132.1
82.5°	78.1	75.7	74.5	75.1	78.1
85°	37.8	34.8	34.8	35.4	35.4
87.5°	10.2	9.0	10.2	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)