

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: P974728

Luminaire Tested: FLR2-24-40HE-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974728
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

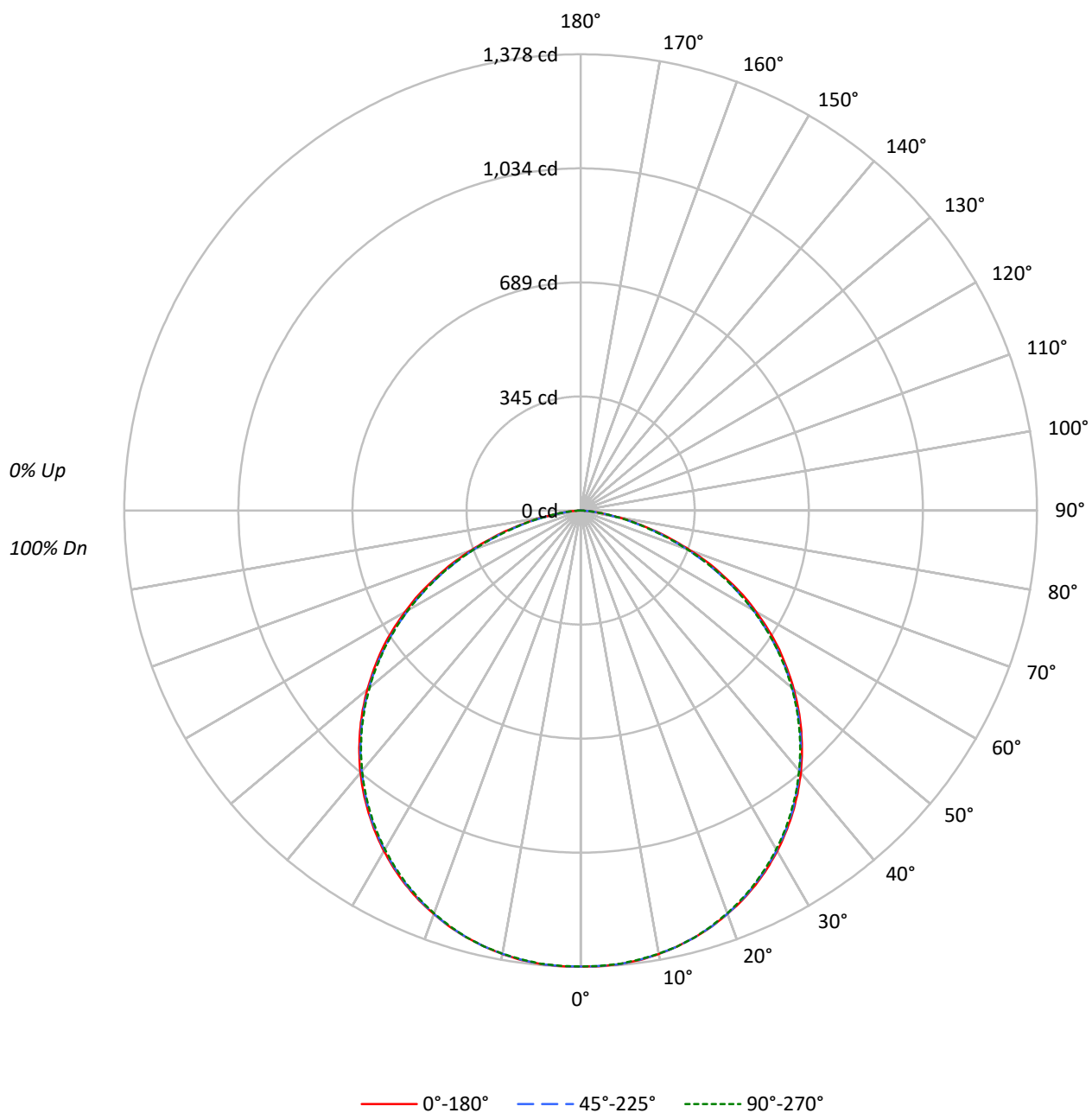
Lumens per Lamp: N/A
Luminaire Lumens: 3893.2 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1853	1853	1853
5°	1857	1857	1856
10°	1858	1858	1857
15°	1859	1858	1858
20°	1857	1856	1854
25°	1854	1850	1847
30°	1845	1840	1836
35°	1833	1828	1822
40°	1817	1806	1803
45°	1793	1783	1777
50°	1760	1746	1741
55°	1718	1694	1692
60°	1647	1617	1617
65°	1541	1504	1509
70°	1386	1343	1340
75°	1164	1118	1112
80°	850	808	842
85°	480	443	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.8	3.4
10°-20°	376.7	9.7
20°-30°	574.3	14.8
30°-40°	695.8	17.9
40°-50°	722.8	18.6
50°-60°	646.6	16.6
60°-70°	471.2	12.1
70°-80°	233.4	6.0
80°-90°	41.7	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°	1081.7	27.8
0°-40°	1777.5	45.7
0°-60°	3146.9	80.8
0°-90°	3893.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3893.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1375	1376	1375	1375	1374	131
15°	1334	1334	1334	1335	1334	377
25°	1248	1247	1246	1246	1244	575
35°	1116	1114	1113	1111	1109	698
45°	942	941	937	935	934	726
55°	732	727	722	722	721	653
65°	484	480	472	474	474	480
75°	224	220	215	219	214	239
85°	31	29	29	29	29	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.5	1377.5	1377.5	1377.5	1377.5
2.5°	1377.5	1377.0	1377.0	1377.5	1376.5
5°	1375.0	1375.5	1375.0	1375.0	1374.0
7.5°	1369.6	1369.1	1368.6	1369.1	1367.6
10°	1360.2	1360.2	1359.7	1360.2	1359.2
12.5°	1348.8	1348.8	1348.8	1349.3	1348.8
15°	1334.5	1334.0	1334.0	1335.0	1334.0
17.5°	1317.7	1317.2	1317.2	1316.7	1315.7
20°	1296.9	1296.9	1296.4	1295.9	1294.5
22.5°	1274.7	1274.2	1272.7	1272.7	1270.7
25°	1248.5	1247.0	1246.0	1245.5	1244.0
27.5°	1219.8	1217.8	1216.4	1215.4	1213.9
30°	1187.7	1185.7	1184.2	1182.8	1181.8
32.5°	1153.1	1152.1	1149.6	1149.1	1147.2
35°	1116.0	1114.5	1113.1	1111.1	1109.1
37.5°	1076.5	1075.0	1071.5	1070.6	1069.1
40°	1034.5	1032.5	1028.1	1028.1	1026.6
42.5°	989.5	987.5	984.6	982.6	981.6
45°	942.5	940.6	937.1	935.1	934.1
47.5°	892.6	891.1	887.2	885.7	884.2
50°	840.7	838.8	834.3	833.3	831.8
52.5°	786.4	785.4	779.4	778.9	777.5
55°	732.5	727.0	722.1	722.1	721.1
57.5°	673.2	669.2	662.8	662.8	661.8
60°	611.9	608.4	601.0	602.0	601.0
62.5°	552.1	544.7	537.7	540.7	538.2
65°	483.9	479.9	472.5	474.5	474.0
67.5°	421.6	414.2	407.3	411.2	409.2
70°	352.4	348.4	341.5	345.5	340.5
72.5°	287.2	283.7	276.8	281.2	276.3
75°	223.9	220.4	215.0	219.0	214.0
77.5°	164.1	161.6	156.7	160.6	161.6
80°	109.7	106.8	104.3	107.7	108.7
82.5°	64.3	62.3	61.3	61.8	64.3
85°	31.1	28.7	28.7	29.2	29.2
87.5°	8.4	7.4	8.4	8.9	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)