

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: P974941

Luminaire Tested: FLR2-24-72HE-L940-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974941
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: FLR2-24-72HE-L940-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

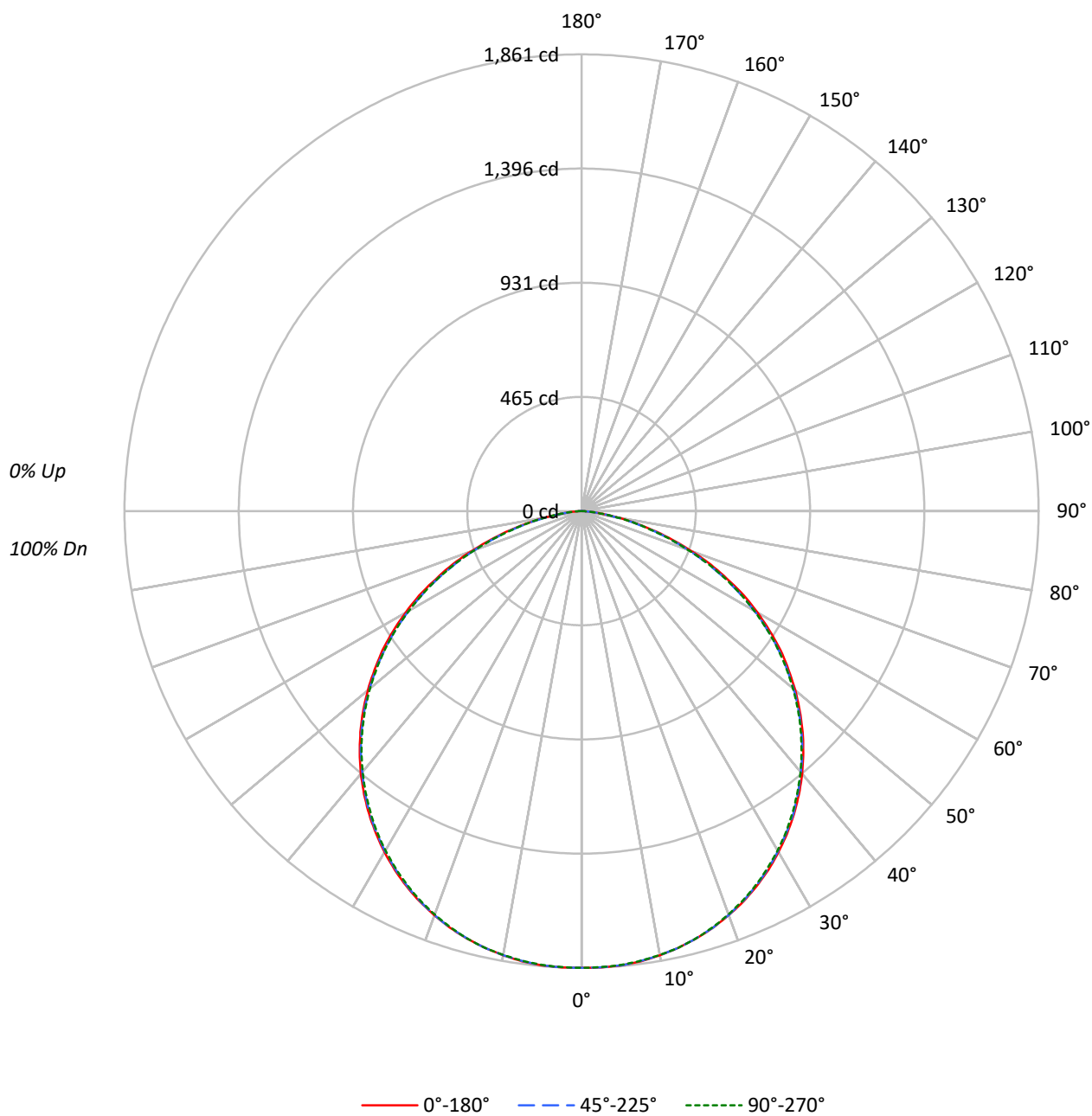
Lumens per Lamp: N/A
Luminaire Lumens: 5260.1 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.6
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°	2504	2504	2504
5°	2509	2509	2507
10°	2511	2510	2509
15°	2511	2511	2511
20°	2509	2508	2504
25°	2504	2499	2495
30°	2493	2486	2481
35°	2477	2470	2461
40°	2455	2440	2436
45°	2423	2409	2402
50°	2378	2359	2353
55°	2322	2289	2286
60°	2225	2185	2185
65°	2082	2032	2039
70°	1873	1815	1810
75°	1573	1510	1503
80°	1148	1092	1138
85°	650	597	608

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2423 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.7	3.4
10°-20°	508.9	9.7
20°-30°	775.9	14.8
30°-40°	940.1	17.9
40°-50°	976.5	18.6
50°-60°	873.6	16.6
60°-70°	636.7	12.1
70°-80°	315.3	6.0
80°-90°	56.4	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°	1461.5	27.8
0°-40°	2401.7	45.7
0°-60°	4251.8	80.8
0°-90°	5260.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5260.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1861	1861	1861	1861	1861	
5°	1858	1858	1858	1858	1856	177
15°	1803	1802	1802	1804	1802	509
25°	1687	1685	1684	1683	1681	777
35°	1508	1506	1504	1501	1498	943
45°	1274	1271	1266	1264	1262	981
55°	990	982	976	976	974	882
65°	654	648	638	641	640	648
75°	302	298	290	296	289	323
85°	42	39	39	39	39	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1861.1	1861.1	1861.1	1861.1	1861.1
2.5°	1861.1	1860.5	1860.5	1861.1	1859.8
5°	1857.8	1858.5	1857.8	1857.8	1856.5
7.5°	1850.5	1849.8	1849.1	1849.8	1847.8
10°	1837.8	1837.8	1837.1	1837.8	1836.4
12.5°	1822.4	1822.4	1822.4	1823.1	1822.4
15°	1803.0	1802.4	1802.4	1803.7	1802.4
17.5°	1780.3	1779.7	1779.7	1779.0	1777.7
20°	1752.3	1752.3	1751.6	1751.0	1748.9
22.5°	1722.2	1721.6	1719.6	1719.6	1716.9
25°	1686.8	1684.8	1683.5	1682.8	1680.8
27.5°	1648.1	1645.4	1643.4	1642.1	1640.1
30°	1604.7	1602.0	1600.0	1598.0	1596.7
32.5°	1558.0	1556.6	1553.3	1552.6	1549.9
35°	1507.9	1505.9	1503.9	1501.2	1498.5
37.5°	1454.5	1452.4	1447.8	1446.4	1444.4
40°	1397.7	1395.0	1389.0	1389.0	1387.0
42.5°	1336.9	1334.2	1330.2	1327.6	1326.2
45°	1273.5	1270.8	1266.1	1263.5	1262.1
47.5°	1206.0	1204.0	1198.7	1196.7	1194.7
50°	1135.9	1133.2	1127.2	1125.9	1123.9
52.5°	1062.5	1061.1	1053.1	1052.4	1050.4
55°	989.7	982.3	975.6	975.6	974.3
57.5°	909.5	904.2	895.5	895.5	894.2
60°	826.7	822.1	812.0	813.4	812.0
62.5°	745.9	735.9	726.6	730.6	727.2
65°	653.8	648.4	638.4	641.1	640.4
67.5°	569.6	559.6	550.3	555.6	552.9
70°	476.1	470.8	461.4	466.8	460.1
72.5°	388.0	383.3	374.0	380.0	373.3
75°	302.5	297.8	290.5	295.8	289.2
77.5°	221.7	218.4	211.7	217.0	218.4
80°	148.2	144.2	140.9	145.6	146.9
82.5°	86.8	84.1	82.8	83.5	86.8
85°	42.1	38.7	38.7	39.4	39.4
87.5°	11.4	10.0	11.4	12.0	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)