

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: P974909

Luminaire Tested: FLR2-24-80HE-L940-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974909
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: FLR2-24-80HE-L940-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

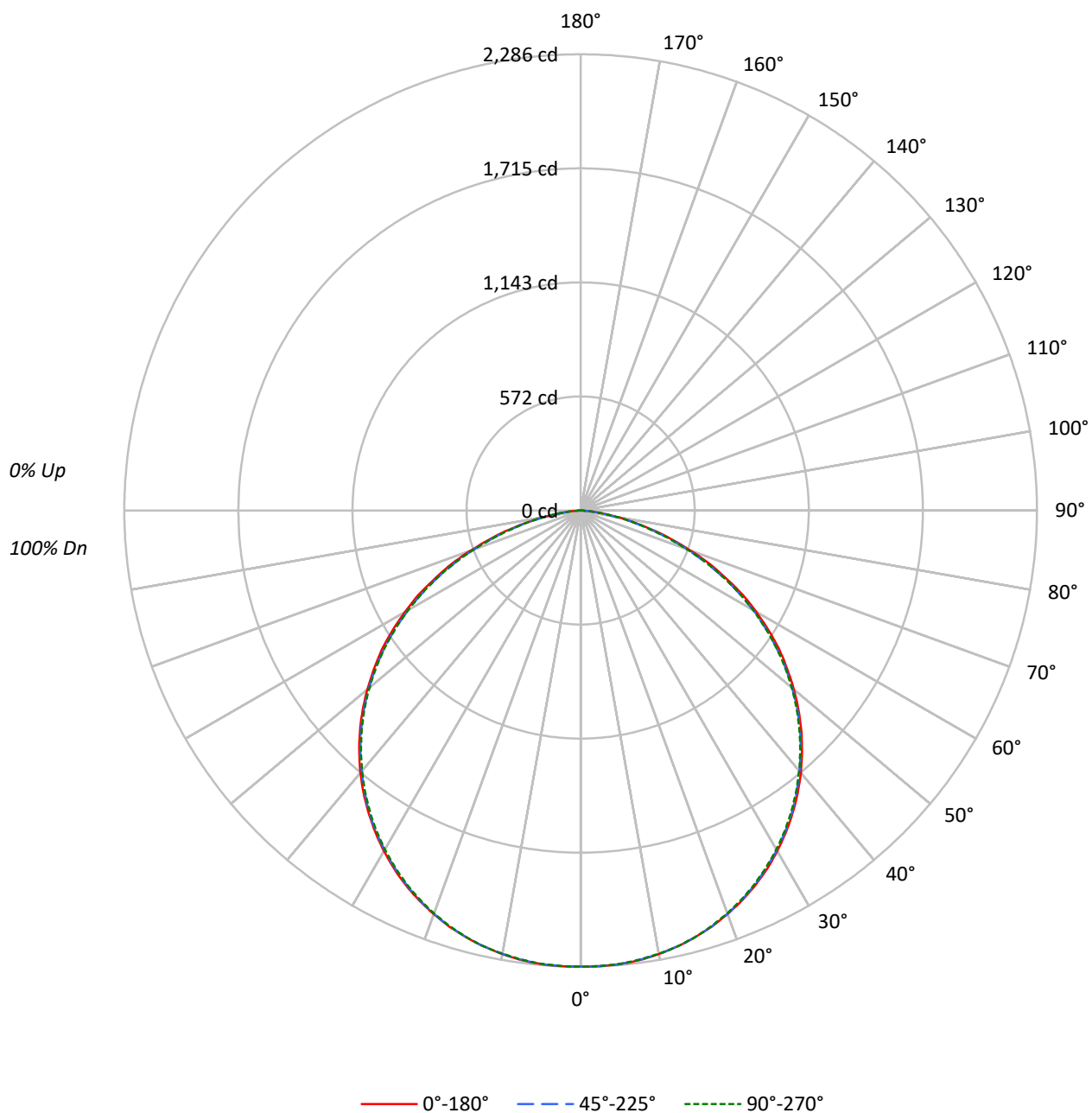
Lumens per Lamp: N/A
Luminaire Lumens: 6459.6 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 63.5
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°	3075	3075	3075
5°	3081	3081	3079
10°	3083	3082	3081
15°	3084	3083	3083
20°	3081	3080	3075
25°	3075	3069	3064
30°	3062	3053	3046
35°	3041	3033	3023
40°	3015	2996	2992
45°	2976	2958	2949
50°	2920	2898	2889
55°	2851	2810	2807
60°	2732	2683	2683
65°	2556	2496	2504
70°	2300	2229	2223
75°	1931	1854	1846
80°	1411	1340	1398
85°	798	735	747

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2976 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.9	3.4
10°-20°	625.0	9.7
20°-30°	952.9	14.8
30°-40°	1154.5	17.9
40°-50°	1199.2	18.6
50°-60°	1072.8	16.6
60°-70°	781.8	12.1
70°-80°	387.2	6.0
80°-90°	69.2	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°	1794.8	27.8
0°-40°	2949.3	45.7
0°-60°	5221.3	80.8
0°-90°	6459.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6459.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2286	2286	2286	2286	2286	
5°	2281	2282	2281	2281	2280	217
15°	2214	2213	2213	2215	2213	625
25°	2072	2069	2067	2067	2064	955
35°	1852	1849	1847	1844	1840	1158
45°	1564	1561	1555	1552	1550	1205
55°	1215	1206	1198	1198	1196	1083
65°	803	796	784	787	786	796
75°	372	366	357	363	355	396
85°	52	48	48	48	48	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2285.5	2285.5	2285.5	2285.5	2285.5
2.5°	2285.5	2284.7	2284.7	2285.5	2283.9
5°	2281.4	2282.2	2281.4	2281.4	2279.8
7.5°	2272.4	2271.6	2270.8	2271.6	2269.1
10°	2256.8	2256.8	2256.0	2256.8	2255.2
12.5°	2238.0	2238.0	2238.0	2238.8	2238.0
15°	2214.2	2213.4	2213.4	2215.0	2213.4
17.5°	2186.3	2185.5	2185.5	2184.6	2183.0
20°	2151.8	2151.8	2151.0	2150.2	2147.7
22.5°	2114.9	2114.1	2111.7	2111.7	2108.4
25°	2071.5	2069.0	2067.4	2066.6	2064.1
27.5°	2023.9	2020.6	2018.2	2016.5	2014.1
30°	1970.6	1967.3	1964.9	1962.4	1960.8
32.5°	1913.2	1911.6	1907.5	1906.6	1903.4
35°	1851.7	1849.2	1846.8	1843.5	1840.2
37.5°	1786.1	1783.6	1777.9	1776.3	1773.8
40°	1716.4	1713.1	1705.7	1705.7	1703.3
42.5°	1641.8	1638.5	1633.6	1630.3	1628.6
45°	1563.9	1560.6	1554.8	1551.6	1549.9
47.5°	1481.0	1478.6	1472.0	1469.6	1467.1
50°	1394.9	1391.6	1384.3	1382.6	1380.2
52.5°	1304.7	1303.1	1293.2	1292.4	1290.0
55°	1215.3	1206.3	1198.1	1198.1	1196.5
57.5°	1116.9	1110.4	1099.7	1099.7	1098.1
60°	1015.2	1009.5	997.2	998.8	997.2
62.5°	916.0	903.7	892.2	897.1	893.0
65°	802.8	796.3	784.0	787.3	786.4
67.5°	699.5	687.2	675.7	682.3	679.0
70°	584.7	578.1	566.7	573.2	565.0
72.5°	476.5	470.7	459.2	466.6	458.4
75°	371.5	365.7	356.7	363.3	355.1
77.5°	272.3	268.2	260.0	266.5	268.2
80°	182.1	177.1	173.0	178.8	180.4
82.5°	106.6	103.3	101.7	102.5	106.6
85°	51.7	47.6	47.6	48.4	48.4
87.5°	13.9	12.3	13.9	14.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)