

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: P973896

Luminaire Tested: FLR2-22-25HE-L840-CP125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-25HE-L840-CP125
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

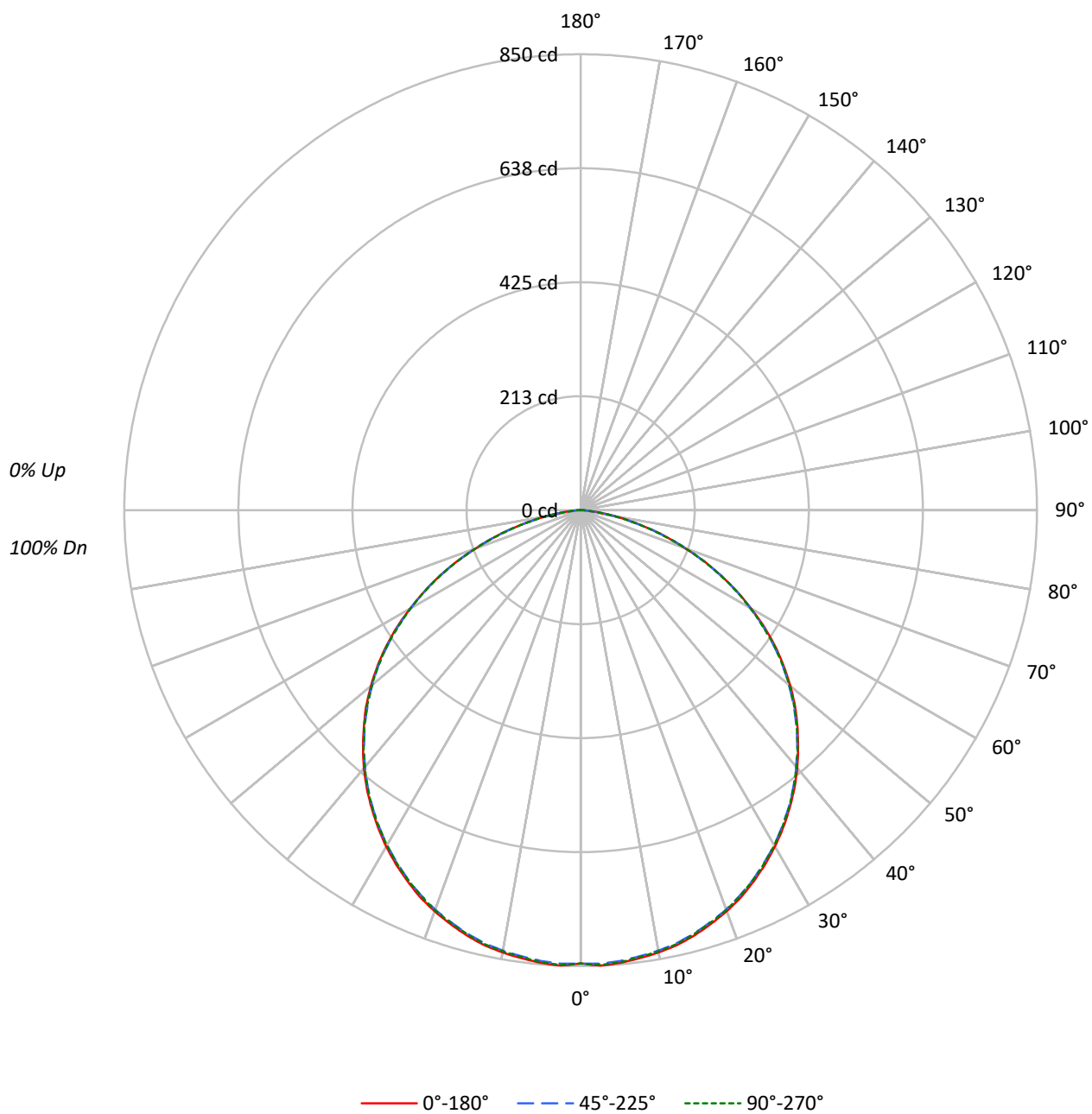
Lumens per Lamp: N/A
Luminaire Lumens: 2363.6 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 19.2
Input Voltage (V): 120
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	99	91	85	79	97	90	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	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44		44
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34		34
8	61	47	39	33	59	47	39	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	40	34	29	27		27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2274	2274	2274
5°	2289	2279	2286
10°	2288	2278	2282
15°	2286	2276	2279
20°	2278	2269	2272
25°	2266	2257	2258
30°	2250	2240	2242
35°	2229	2221	2223
40°	2206	2195	2197
45°	2173	2163	2167
50°	2135	2120	2124
55°	2075	2057	2065
60°	1972	1964	1964
65°	1841	1838	1831
70°	1630	1639	1635
75°	1373	1362	1352
80°	987	970	962
85°	516	516	500

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2173 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.4
10°-20°	230.2	9.7
20°-30°	349.8	14.8
30°-40°	422.7	17.9
40°-50°	438.8	18.6
50°-60°	392.3	16.6
60°-70°	285.2	12.1
70°-80°	140.3	5.9
80°-90°	24.3	1.0
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°	659.9	27.9
0°-40°	1082.7	45.8
0°-60°	1913.8	81.0
0°-90°	2363.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	845	845	845	845	845	
5°	847	837	844	840	846	81
15°	821	811	817	815	818	232
25°	763	755	760	758	761	352
35°	679	674	676	677	677	425
45°	571	568	568	570	570	441
55°	442	440	438	440	440	394
65°	289	290	289	289	288	285
75°	132	133	131	132	130	140
85°	17	17	17	17	16	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	845.2	845.2	845.2	845.2	845.2
2.5°	849.9	840.0	846.2	842.6	848.3
5°	847.3	837.3	843.6	840.5	846.2
7.5°	842.6	832.6	838.9	835.8	840.5
10°	837.3	826.9	833.7	830.6	835.3
12.5°	830.6	820.6	826.9	824.3	828.5
15°	820.6	811.2	817.0	814.9	818.0
17.5°	808.6	799.2	805.0	803.4	806.0
20°	795.6	786.7	792.4	790.9	793.5
22.5°	781.0	771.6	776.8	775.7	777.8
25°	763.2	754.9	760.1	758.5	760.6
27.5°	744.4	736.6	740.8	740.8	741.8
30°	724.1	716.8	720.9	720.9	721.5
32.5°	702.1	696.4	699.0	699.5	699.5
35°	678.6	673.9	676.0	676.6	676.6
37.5°	654.1	649.4	651.0	652.0	652.0
40°	628.0	623.8	624.9	625.9	625.4
42.5°	599.8	596.7	597.2	598.3	598.3
45°	571.1	568.5	568.5	569.5	569.5
47.5°	541.9	539.3	538.2	539.3	539.3
50°	510.0	507.4	506.4	507.4	507.4
52.5°	476.6	474.0	474.0	474.0	474.5
55°	442.2	439.6	438.5	439.6	440.1
57.5°	405.6	404.6	403.0	403.5	402.0
60°	366.5	366.5	364.9	365.9	364.9
62.5°	328.4	329.4	327.8	327.8	326.8
65°	289.2	290.3	288.7	288.7	287.6
67.5°	249.0	250.6	248.5	248.5	247.4
70°	207.2	210.4	208.3	208.8	207.8
72.5°	169.7	171.2	169.1	169.1	168.1
75°	132.1	133.1	131.0	131.6	130.0
77.5°	95.0	96.6	94.5	95.0	94.5
80°	63.7	64.2	62.6	63.2	62.1
82.5°	37.1	37.6	37.1	36.5	36.0
85°	16.7	17.2	16.7	16.7	16.2
87.5°	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)