

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: P974857

Luminaire Tested: FLR2-24-20HE-L840-CP375

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974857
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: FLR2-24-20HE-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

Summary

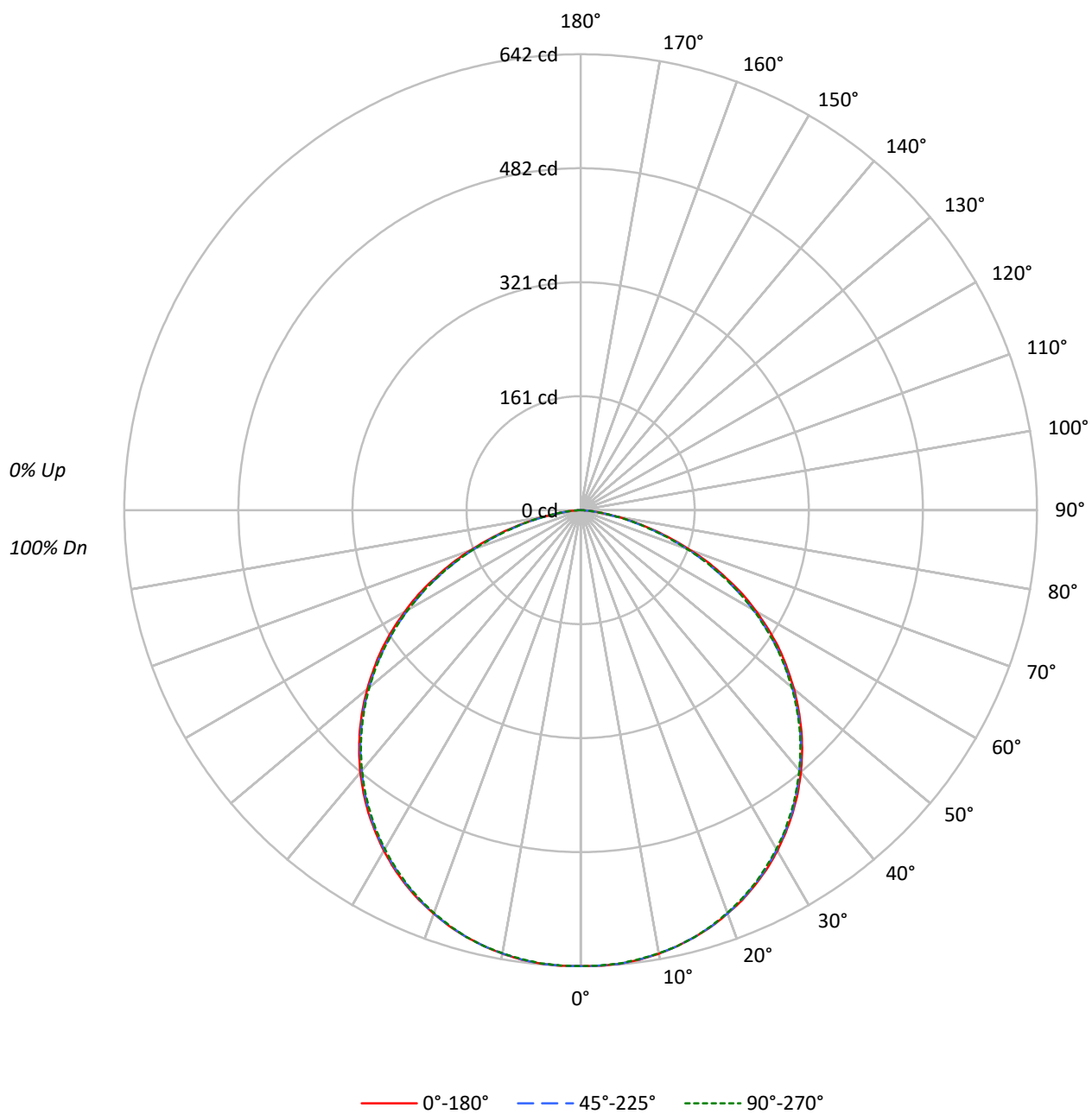
Lumens per Lamp: N/A
Luminaire Lumens: 1814.9 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.39
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 14.9
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

TEST NUMBER: P974857

CATALOG NUMBER: FLR2-24-20HE-L840-CP375

Luminous Intensity Polar Plot



TEST NUMBER: P974857

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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		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71		
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	57	53	51		
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	38		
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30		
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	39	33	29	27		
10	53	40	32	27	52	39	32	27	38	31	27	38	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	864	864	864
5°	866	866	865
10°	866	866	866
15°	867	866	866
20°	866	865	864
25°	864	862	861
30°	860	858	856
35°	855	852	849
40°	847	842	840
45°	836	831	829
50°	820	814	812
55°	801	790	789
60°	767	754	754
65°	718	701	704
70°	646	626	624
75°	543	521	519
80°	396	377	393
85°	224	207	210

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 836 cd/sqm

TEST NUMBER: P974857

CATALOG NUMBER: FLR2-24-20HE-L840-CP375

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	3.4
10°-20°	175.6	9.7
20°-30°	267.7	14.8
30°-40°	324.4	17.9
40°-50°	336.9	18.6
50°-60°	301.4	16.6
60°-70°	219.7	12.1
70°-80°	108.8	6.0
80°-90°	19.5	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°	504.3	27.8
0°-40°	828.6	45.7
0°-60°	1467.0	80.8
0°-90°	1814.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1814.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	642	642	642	642	642	
5°	641	641	641	641	640	61
15°	622	622	622	622	622	176
25°	582	581	581	581	580	268
35°	520	520	519	518	517	325
45°	439	438	437	436	436	339
55°	342	339	337	337	336	304
65°	226	224	220	221	221	224
75°	104	103	100	102	100	111
85°	14	13	13	14	14	20
90°	0	0	0	0	0	

TEST NUMBER: P974857

CATALOG NUMBER: FLR2-24-20HE-L840-CP375

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	642.1	642.1	642.1	642.1	642.1
2.5°	642.1	641.9	641.9	642.1	641.7
5°	641.0	641.2	641.0	641.0	640.5
7.5°	638.4	638.2	638.0	638.2	637.5
10°	634.1	634.1	633.8	634.1	633.6
12.5°	628.8	628.8	628.8	629.0	628.8
15°	622.1	621.9	621.9	622.3	621.9
17.5°	614.3	614.0	614.0	613.8	613.3
20°	604.6	604.6	604.3	604.1	603.4
22.5°	594.2	594.0	593.3	593.3	592.4
25°	582.0	581.3	580.8	580.6	579.9
27.5°	568.6	567.7	567.0	566.6	565.9
30°	553.7	552.7	552.0	551.4	550.9
32.5°	537.5	537.1	535.9	535.7	534.8
35°	520.3	519.6	518.9	517.9	517.0
37.5°	501.8	501.1	499.5	499.1	498.4
40°	482.2	481.3	479.2	479.2	478.5
42.5°	461.3	460.3	459.0	458.0	457.6
45°	439.4	438.5	436.8	435.9	435.5
47.5°	416.1	415.4	413.6	412.9	412.2
50°	391.9	391.0	388.9	388.5	387.8
52.5°	366.6	366.1	363.3	363.1	362.4
55°	341.5	338.9	336.6	336.6	336.2
57.5°	313.8	312.0	309.0	309.0	308.5
60°	285.2	283.6	280.2	280.6	280.2
62.5°	257.4	253.9	250.7	252.1	250.9
65°	225.6	223.7	220.3	221.2	221.0
67.5°	196.5	193.1	189.9	191.7	190.8
70°	164.3	162.4	159.2	161.1	158.7
72.5°	133.9	132.3	129.0	131.1	128.8
75°	104.4	102.8	100.2	102.1	99.8
77.5°	76.5	75.3	73.0	74.9	75.3
80°	51.1	49.8	48.6	50.2	50.7
82.5°	30.0	29.0	28.6	28.8	30.0
85°	14.5	13.4	13.4	13.6	13.6
87.5°	3.9	3.5	3.9	4.1	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)