

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: P974313

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

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974313
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: FLR2-24-20-L840-CP375
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L840-CP375
Ballast/Driver: -

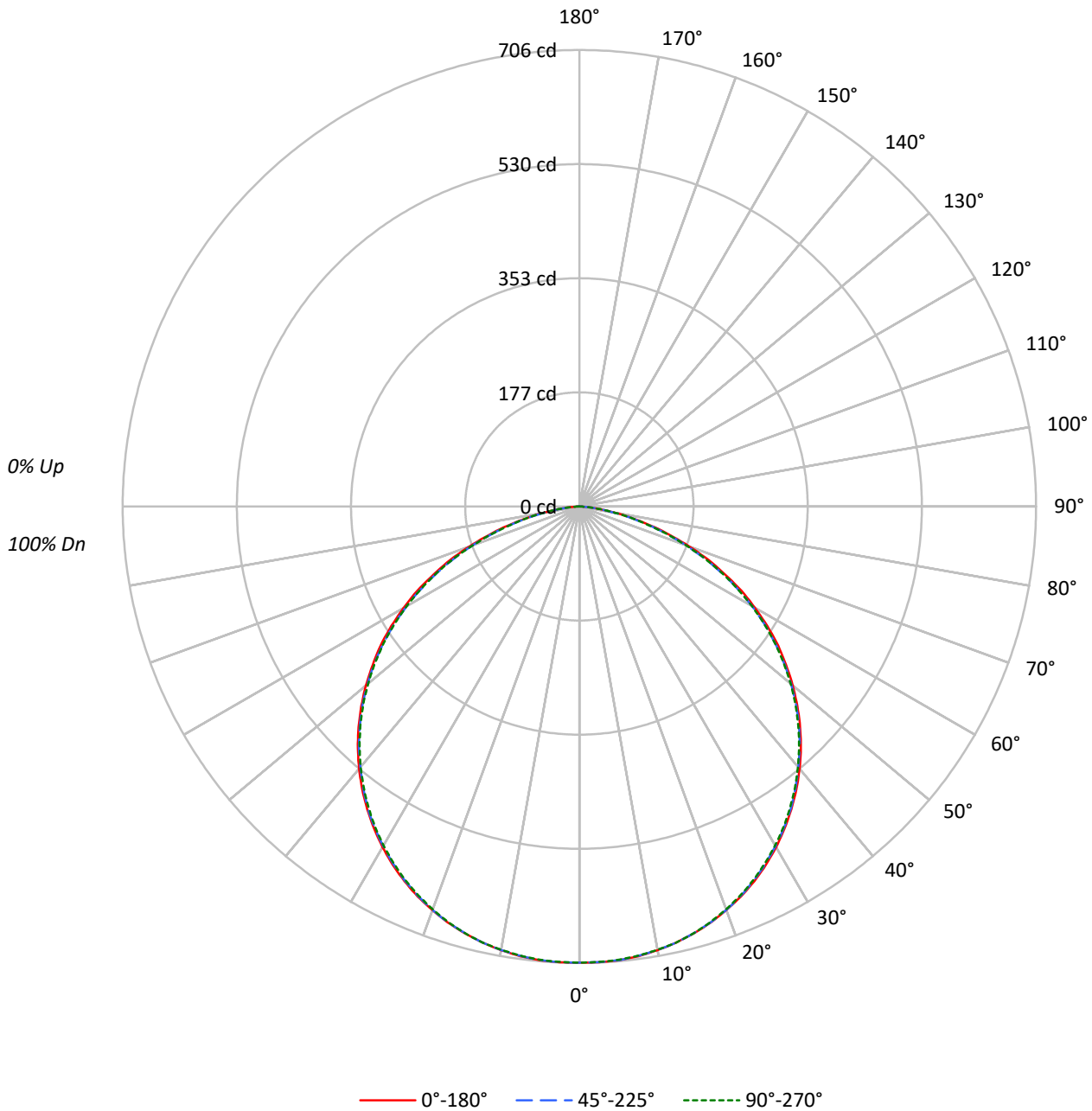
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1994.3 lumens
Efficiency: N/A
Efficacy: 119.4 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): 16.7
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

TEST NUMBER: P974313
CATALOG NUMBER: FLR2-24-20-L840-CP375

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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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°	949	949	949
5°	951	951	951
10°	952	952	951
15°	952	952	952
20°	951	951	949
25°	950	948	946
30°	945	942	941
35°	939	937	933
40°	931	925	924
45°	919	913	910
50°	902	895	892
55°	880	868	867
60°	843	829	829
65°	789	770	773
70°	710	688	686
75°	596	572	570
80°	435	414	432
85°	247	227	230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 919 cd/sqm



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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.0	3.4
10°-20°	193.0	9.7
20°-30°	294.2	14.8
30°-40°	356.4	17.9
40°-50°	370.2	18.6
50°-60°	331.2	16.6
60°-70°	241.4	12.1
70°-80°	119.6	6.0
80°-90°	21.4	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°	554.1	27.8
0°-40°	910.6	45.7
0°-60°	1612.0	80.8
0°-90°	1994.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1994.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	706	706	706	706	706	
5°	704	705	704	704	704	67
15°	684	683	683	684	683	193
25°	640	639	638	638	637	295
35°	572	571	570	569	568	358
45°	483	482	480	479	478	372
55°	375	372	370	370	369	334
65°	248	246	242	243	243	246
75°	115	113	110	112	110	122
85°	16	15	15	15	15	22
90°	0	0	0	0	0	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	705.6	705.6	705.6	705.6	705.6
2.5°	705.6	705.4	705.4	705.6	705.1
5°	704.4	704.6	704.4	704.4	703.9
7.5°	701.6	701.3	701.1	701.3	700.6
10°	696.8	696.8	696.5	696.8	696.3
12.5°	691.0	691.0	691.0	691.2	691.0
15°	683.6	683.4	683.4	683.9	683.4
17.5°	675.0	674.7	674.7	674.5	674.0
20°	664.4	664.4	664.1	663.9	663.1
22.5°	653.0	652.7	652.0	652.0	650.9
25°	639.6	638.8	638.3	638.0	637.3
27.5°	624.9	623.9	623.1	622.6	621.8
30°	608.4	607.4	606.6	605.9	605.4
32.5°	590.7	590.2	588.9	588.7	587.7
35°	571.7	570.9	570.2	569.2	568.2
37.5°	551.4	550.7	548.9	548.4	547.6
40°	529.9	528.9	526.6	526.6	525.9
42.5°	506.9	505.9	504.4	503.3	502.8
45°	482.8	481.8	480.0	479.0	478.5
47.5°	457.3	456.5	454.5	453.7	453.0
50°	430.7	429.7	427.4	426.9	426.1
52.5°	402.8	402.3	399.3	399.0	398.3
55°	375.2	372.4	369.9	369.9	369.4
57.5°	344.8	342.8	339.5	339.5	339.0
60°	313.4	311.7	307.9	308.4	307.9
62.5°	282.8	279.0	275.5	277.0	275.7
65°	247.9	245.8	242.0	243.1	242.8
67.5°	216.0	212.2	208.6	210.7	209.6
70°	180.5	178.5	175.0	177.0	174.4
72.5°	147.1	145.3	141.8	144.1	141.5
75°	114.7	112.9	110.1	112.2	109.6
77.5°	84.1	82.8	80.3	82.3	82.8
80°	56.2	54.7	53.4	55.2	55.7
82.5°	32.9	31.9	31.4	31.6	32.9
85°	16.0	14.7	14.7	14.9	14.9
87.5°	4.3	3.8	4.3	4.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)