

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: P974217

Luminaire Tested: FLR2-24-20-L835-CA125

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P974217
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-L835-CA125
Description: SHAPER SENSE CIRCLE

Light Source: FLR2-24-20-L835-CA125
Ballast/Driver: -

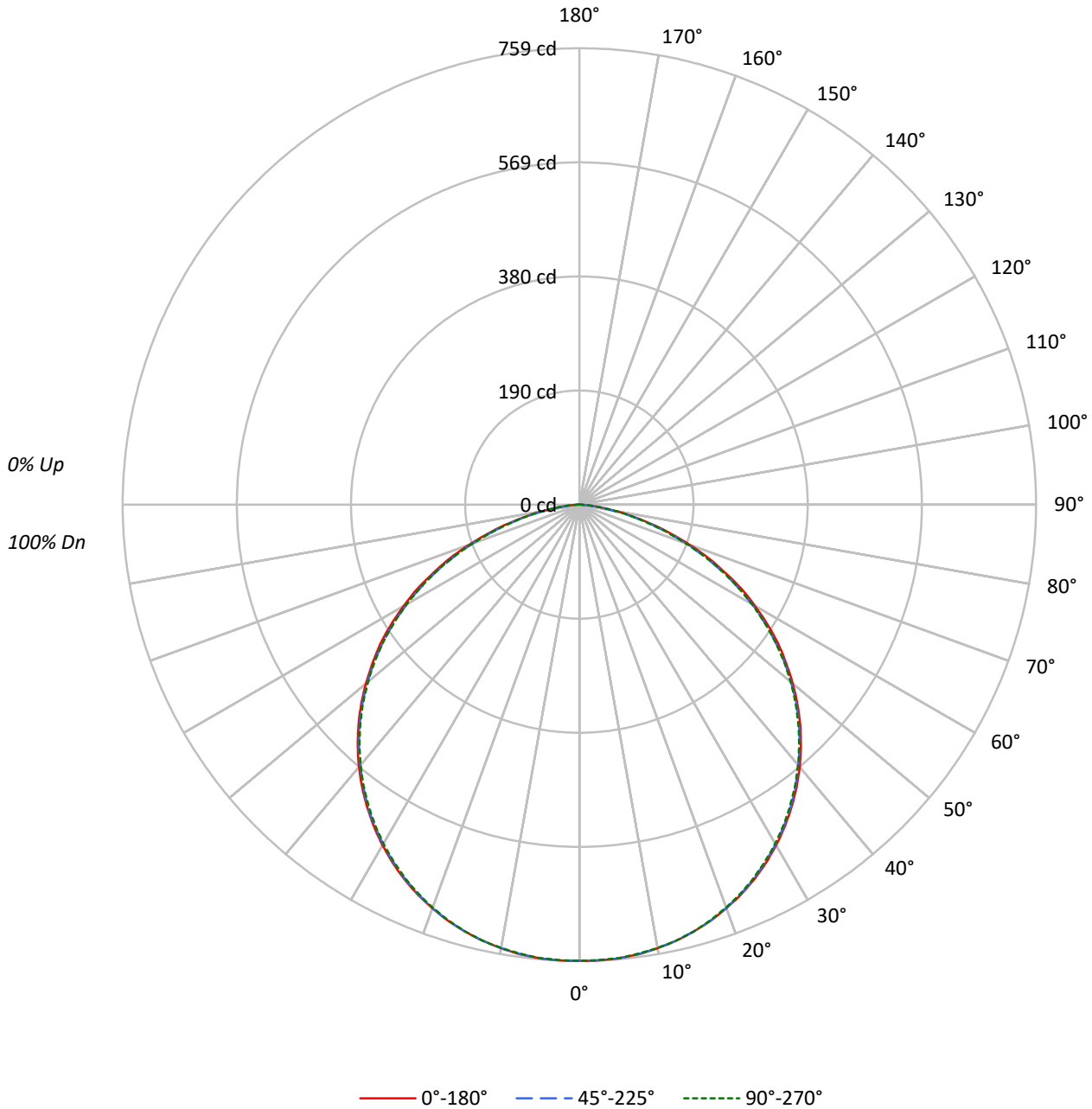
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2144.5 lumens
Efficiency: N/A
Efficacy: 128.4 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: P974217
CATALOG NUMBER: FLR2-24-20-L835-CA125

Luminous Intensity Polar Plot





TEST NUMBER: P974217
 CATALOG NUMBER: FLR2-24-20-L835-CA125

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	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						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°	1021	1021	1021
5°	1023	1023	1022
10°	1024	1023	1023
15°	1024	1024	1024
20°	1023	1022	1021
25°	1021	1019	1017
30°	1016	1013	1011
35°	1010	1007	1003
40°	1001	995	993
45°	988	982	979
50°	969	962	959
55°	947	933	932
60°	907	891	891
65°	848	829	831
70°	764	740	738
75°	641	616	613
80°	468	445	464
85°	266	244	249

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 988 cd/sqm



TEST NUMBER: P974217
 CATALOG NUMBER: FLR2-24-20-L835-CA125

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	3.4
10°-20°	207.5	9.7
20°-30°	316.3	14.8
30°-40°	383.3	17.9
40°-50°	398.1	18.6
50°-60°	356.2	16.6
60°-70°	259.6	12.1
70°-80°	128.5	6.0
80°-90°	23.0	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°	595.9	27.8
0°-40°	979.1	45.7
0°-60°	1733.4	80.8
0°-90°	2144.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2144.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	759	759	759	759	759	
5°	757	758	757	757	757	72
15°	735	735	735	735	735	208
25°	688	687	686	686	685	317
35°	615	614	613	612	611	385
45°	519	518	516	515	515	400
55°	404	400	398	398	397	359
65°	266	264	260	261	261	264
75°	123	121	118	121	118	131
85°	17	16	16	16	16	24
90°	0	0	0	0	0	



TEST NUMBER: P974217
 CATALOG NUMBER: FLR2-24-20-L835-CA125

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	758.8	758.8	758.8	758.8	758.8
2.5°	758.8	758.5	758.5	758.8	758.2
5°	757.4	757.7	757.4	757.4	756.9
7.5°	754.4	754.1	753.9	754.1	753.3
10°	749.2	749.2	749.0	749.2	748.7
12.5°	743.0	743.0	743.0	743.3	743.0
15°	735.1	734.8	734.8	735.4	734.8
17.5°	725.8	725.6	725.6	725.3	724.7
20°	714.4	714.4	714.1	713.8	713.0
22.5°	702.1	701.9	701.1	701.1	700.0
25°	687.7	686.9	686.3	686.1	685.3
27.5°	671.9	670.8	670.0	669.5	668.7
30°	654.2	653.1	652.3	651.5	651.0
32.5°	635.2	634.6	633.3	633.0	631.9
35°	614.7	613.9	613.1	612.0	610.9
37.5°	593.0	592.1	590.2	589.7	588.9
40°	569.8	568.7	566.3	566.3	565.5
42.5°	545.1	544.0	542.3	541.2	540.7
45°	519.2	518.1	516.2	515.1	514.6
47.5°	491.7	490.9	488.7	487.9	487.1
50°	463.1	462.0	459.6	459.0	458.2
52.5°	433.2	432.6	429.3	429.1	428.3
55°	403.5	400.5	397.8	397.8	397.2
57.5°	370.8	368.6	365.1	365.1	364.5
60°	337.0	335.1	331.1	331.6	331.1
62.5°	304.1	300.0	296.2	297.8	296.5
65°	266.5	264.4	260.3	261.4	261.1
67.5°	232.2	228.1	224.3	226.5	225.4
70°	194.1	191.9	188.1	190.3	187.6
72.5°	158.2	156.3	152.5	154.9	152.2
75°	123.3	121.4	118.4	120.6	117.9
77.5°	90.4	89.0	86.3	88.5	89.0
80°	60.4	58.8	57.4	59.4	59.9
82.5°	35.4	34.3	33.8	34.0	35.4
85°	17.2	15.8	15.8	16.1	16.1
87.5°	4.6	4.1	4.6	4.9	5.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)