

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P997359

Luminaire Tested: FSP-22-L3C3-CP187-4000K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-11)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-22-L3C3-CP187-4000K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

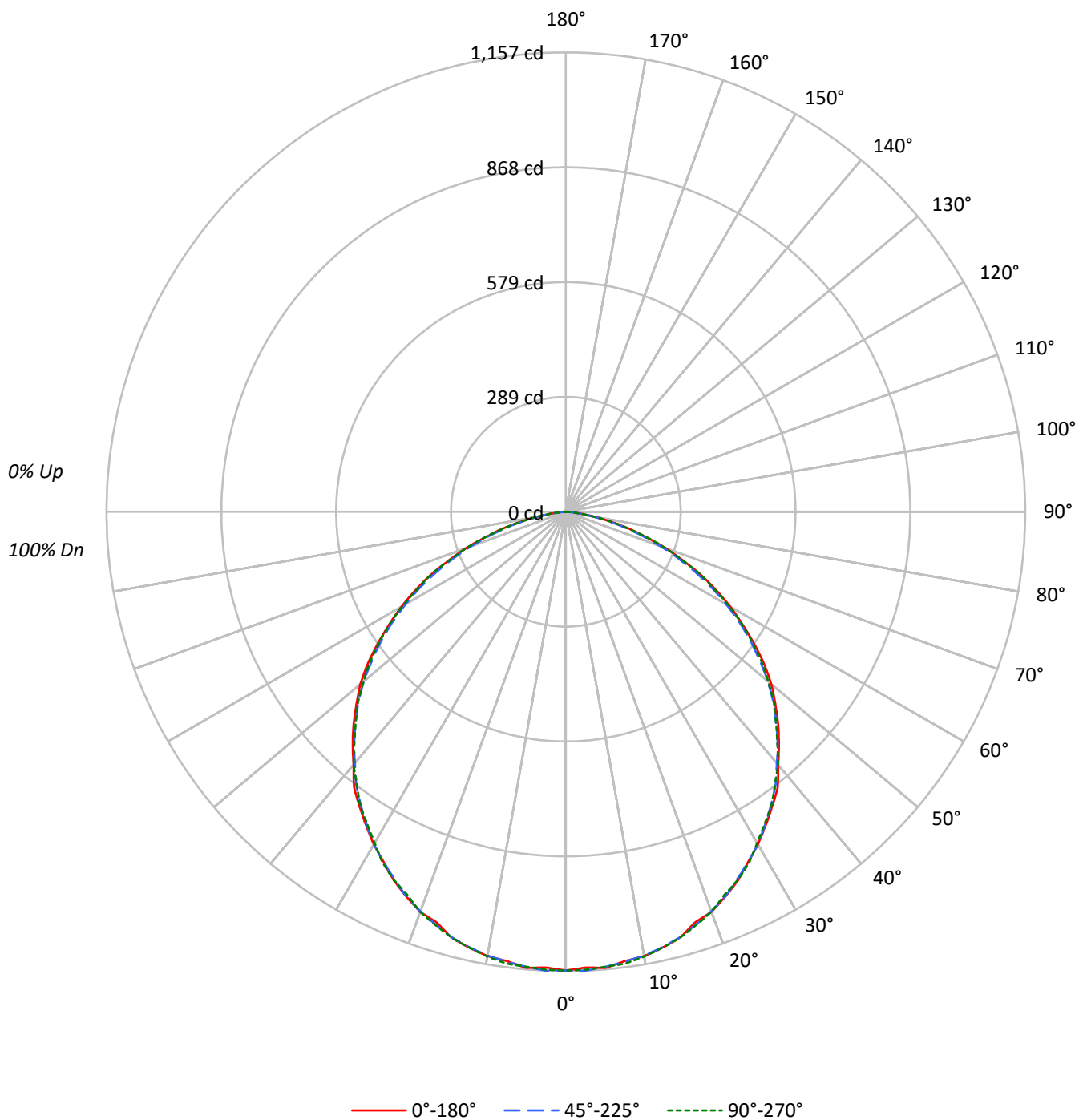
Lumens per Lamp: N/A
Luminaire Lumens: 3108.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type: Direct

Input Watts (W): 30.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	70	62	56	68	61	55		66	60	55		63
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	42	55	48	42		53	47	42		52
7	66	52	44	38	64	52	43	38	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	34	46	39	33		45	38	33		43
9	57	44	36	30	56	43	36	30	42	35	30		41	35	30		40
10	54	41	33	27	52	40	33	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3786	3786	3786
5°	3792	3783	3783
10°	3780	3776	3785
15°	3768	3763	3768
20°	3739	3734	3739
25°	3705	3692	3701
30°	3660	3660	3645
35°	3624	3603	3614
40°	3557	3536	3557
45°	3504	3468	3468
50°	3444	3385	3392
55°	3304	3245	3274
60°	3136	3060	3111
65°	2907	2788	2907
70°	2549	2428	2538
75°	2090	1943	2041
80°	1425	1353	1449
85°	624	673	673

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3504 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.4	3.5
10°-20°	312.9	10.1
20°-30°	471.2	15.2
30°-40°	564.5	18.2
40°-50°	579.6	18.6
50°-60°	510.5	16.4
60°-70°	362.2	11.7
70°-80°	170.6	5.5
80°-90°	27.0	0.9
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°	893.6	28.8
0°-40°	1458.1	46.9
0°-60°	2548.2	82.0
0°-90°	3108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1153	1155	1150	1150	1150	109
15°	1111	1108	1109	1109	1111	312
25°	1025	1025	1021	1024	1024	472
35°	906	903	901	901	903	567
45°	756	754	748	752	748	583
55°	578	573	568	572	573	517
65°	375	365	360	368	375	369
75°	165	157	154	161	161	175
85°	17	17	18	18	18	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1155.4	1155.4	1155.4	1155.4	1155.4
2.5°	1149.0	1158.0	1156.7	1154.2	1154.2
5°	1152.9	1155.4	1150.3	1150.3	1150.3
7.5°	1141.4	1146.5	1142.6	1142.6	1147.8
10°	1136.2	1138.8	1135.0	1135.0	1137.5
12.5°	1124.7	1126.0	1123.4	1123.4	1124.7
15°	1110.7	1108.1	1109.4	1109.4	1110.7
17.5°	1083.8	1094.0	1090.2	1094.0	1091.5
20°	1072.3	1073.5	1071.0	1069.7	1072.3
22.5°	1049.2	1045.4	1049.2	1046.7	1044.1
25°	1024.9	1024.9	1021.1	1023.6	1023.6
27.5°	994.2	995.5	994.2	994.2	998.1
30°	967.3	967.3	967.3	966.1	963.5
32.5°	936.6	936.6	934.1	935.4	931.5
35°	905.9	903.4	900.8	900.8	903.4
37.5°	876.5	871.4	867.5	867.5	865.0
40°	831.7	834.3	826.6	827.9	831.7
42.5°	794.6	794.6	789.5	793.3	788.2
45°	756.2	753.7	748.5	752.4	748.5
47.5°	715.3	711.4	708.9	707.6	710.2
50°	675.6	666.6	664.1	665.4	665.4
52.5°	629.5	620.6	615.5	619.3	621.9
55°	578.4	573.2	568.1	572.0	573.2
57.5°	527.2	522.1	518.2	520.8	525.9
60°	478.6	470.9	467.0	472.2	474.7
62.5°	426.1	418.4	414.6	422.3	421.0
65°	374.9	364.7	359.6	368.5	374.9
67.5°	318.6	312.2	305.8	314.8	316.0
70°	266.1	255.9	253.4	264.9	264.9
72.5°	211.1	207.3	202.2	211.1	213.7
75°	165.1	157.4	153.5	161.2	161.2
77.5°	116.4	112.6	110.0	116.4	119.0
80°	75.5	71.7	71.7	74.2	76.8
82.5°	40.9	40.9	39.7	42.2	43.5
85°	16.6	16.6	17.9	17.9	17.9
87.5°	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	16.30	17.90	16.66	18.22	18.53	16.28	17.89	16.65	18.20	18.52
	3H	17.82	19.27	18.20	19.60	19.96	17.83	19.27	18.20	19.60	19.96
	4H	18.28	19.64	18.68	19.99	20.37	18.29	19.65	18.69	20.00	20.37
	6H	18.52	19.77	18.93	20.14	20.53	18.53	19.79	18.95	20.16	20.55
	8H	18.55	19.75	18.97	20.14	20.53	18.57	19.77	19.00	20.16	20.56
	12H	18.54	19.69	18.97	20.07	20.50	18.57	19.72	19.00	20.10	20.53
4H	2H	16.84	18.20	17.23	18.54	18.92	16.82	18.18	17.22	18.53	18.91
	3H	18.54	19.67	18.95	20.07	20.47	18.56	19.69	18.97	20.09	20.49
	4H	19.09	20.11	19.52	20.52	20.96	19.12	20.13	19.55	20.55	20.99
	6H	19.40	20.29	19.85	20.73	21.18	19.44	20.33	19.90	20.77	21.23
	8H	19.45	20.27	19.91	20.72	21.18	19.49	20.32	19.96	20.77	21.23
	12H	19.46	20.20	19.94	20.68	21.14	19.51	20.25	19.99	20.73	21.20
8H	4H	19.27	20.10	19.73	20.54	21.01	19.29	20.12	19.75	20.56	21.03
	6H	19.63	20.31	20.12	20.80	21.28	19.67	20.36	20.17	20.85	21.32
	8H	19.70	20.31	20.21	20.82	21.31	19.75	20.36	20.26	20.87	21.36
	12H	19.73	20.27	20.24	20.76	21.32	19.79	20.33	20.29	20.82	21.38
12H	4H	19.27	20.01	19.75	20.49	20.96	19.29	20.03	19.77	20.51	20.98
	6H	19.63	20.24	20.14	20.75	21.24	19.67	20.28	20.18	20.79	21.28
	8H	19.73	20.27	20.24	20.76	21.32	19.78	20.32	20.29	20.81	21.37