

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: P997356

Luminaire Tested: FSP-22-L3C3-CP187-3500K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997356
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-CP187-3500K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

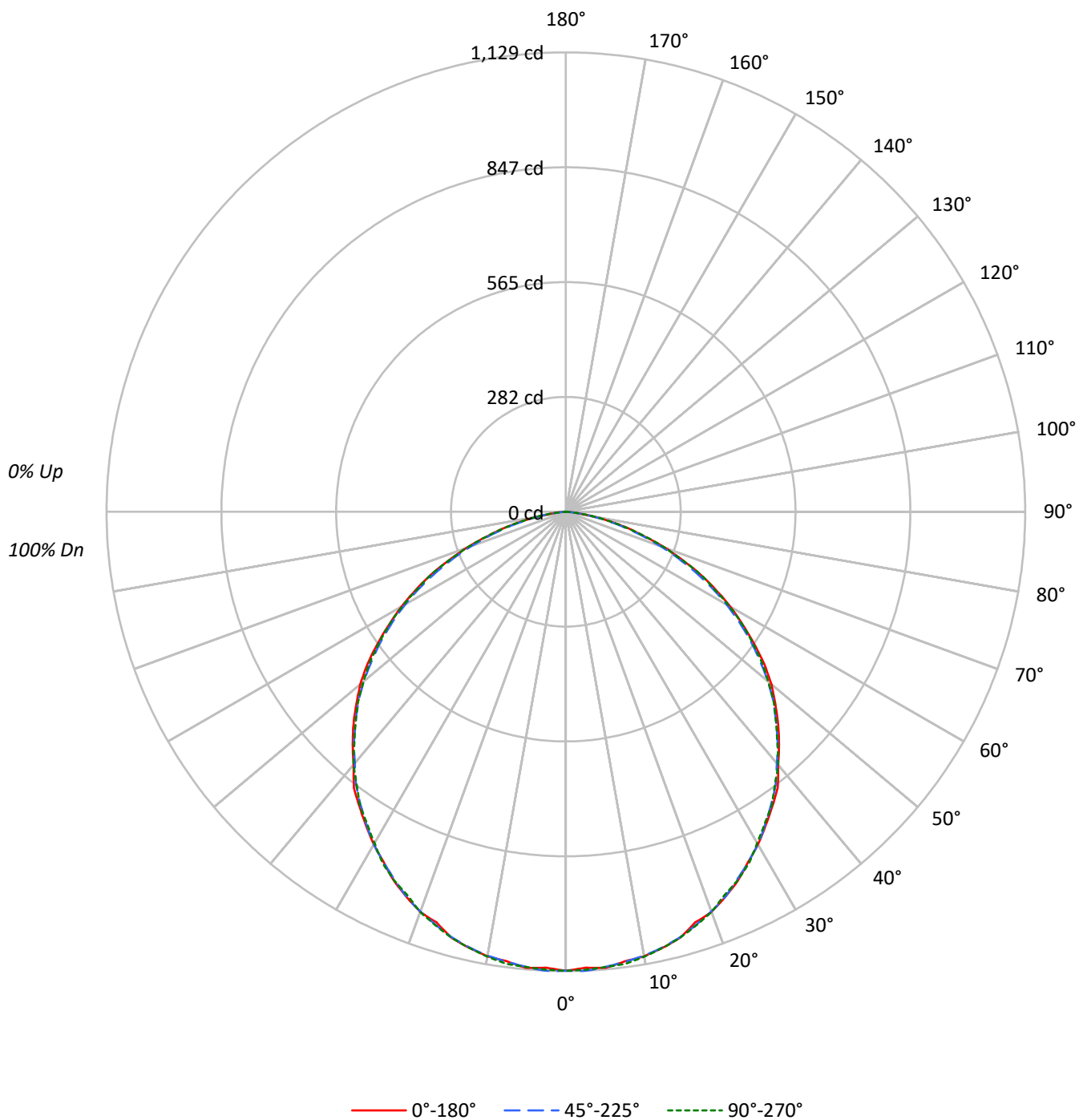
Lumens per Lamp: N/A
Luminaire Lumens: 3034.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 1.81' x H: 0')
CIE Type: Direct

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°	3696	3696	3696
5°	3701	3693	3693
10°	3690	3686	3694
15°	3678	3674	3678
20°	3650	3645	3650
25°	3617	3604	3613
30°	3573	3573	3559
35°	3538	3518	3528
40°	3473	3451	3473
45°	3421	3386	3386
50°	3362	3305	3311
55°	3225	3168	3197
60°	3062	2988	3037
65°	2838	2721	2838
70°	2489	2369	2477
75°	2039	1898	1993
80°	1391	1319	1413
85°	609	658	658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	3.5
10°-20°	305.5	10.1
20°-30°	460.0	15.2
30°-40°	551.1	18.2
40°-50°	565.8	18.6
50°-60°	498.4	16.4
60°-70°	353.6	11.7
70°-80°	166.6	5.5
80°-90°	26.3	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°	872.3	28.8
0°-40°	1423.4	46.9
0°-60°	2487.5	82.0
0°-90°	3034.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3034.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1125	1128	1123	1123	1123	107
15°	1084	1082	1083	1083	1084	305
25°	1000	1000	997	999	999	460
35°	884	882	879	879	882	553
45°	738	736	731	734	731	569
55°	565	560	555	558	560	505
65°	366	356	351	360	366	360
75°	161	154	150	157	157	171
85°	16	16	18	18	18	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127.9	1127.9	1127.9	1127.9	1127.9
2.5°	1121.7	1130.4	1129.2	1126.7	1126.7
5°	1125.4	1127.9	1122.9	1122.9	1122.9
7.5°	1114.2	1119.2	1115.4	1115.4	1120.4
10°	1109.2	1111.7	1107.9	1107.9	1110.4
12.5°	1097.9	1099.2	1096.7	1096.7	1097.9
15°	1084.2	1081.7	1083.0	1083.0	1084.2
17.5°	1058.0	1068.0	1064.2	1068.0	1065.5
20°	1046.7	1048.0	1045.5	1044.2	1046.7
22.5°	1024.3	1020.5	1024.3	1021.8	1019.3
25°	1000.5	1000.5	996.8	999.3	999.3
27.5°	970.5	971.8	970.5	970.5	974.3
30°	944.3	944.3	944.3	943.1	940.6
32.5°	914.3	914.3	911.8	913.1	909.3
35°	884.4	881.9	879.4	879.4	881.9
37.5°	855.6	850.6	846.9	846.9	844.4
40°	811.9	814.4	806.9	808.2	811.9
42.5°	775.7	775.7	770.7	774.4	769.4
45°	738.2	735.7	730.7	734.5	730.7
47.5°	698.2	694.5	692.0	690.7	693.2
50°	659.5	650.8	648.3	649.5	649.5
52.5°	614.6	605.8	600.8	604.6	607.1
55°	564.6	559.6	554.6	558.3	559.6
57.5°	514.6	509.6	505.9	508.4	513.4
60°	467.2	459.7	455.9	460.9	463.4
62.5°	415.9	408.5	404.7	412.2	410.9
65°	366.0	356.0	351.0	359.7	366.0
67.5°	311.0	304.8	298.5	307.3	308.5
70°	259.8	249.8	247.3	258.6	258.6
72.5°	206.1	202.4	197.4	206.1	208.6
75°	161.1	153.6	149.9	157.4	157.4
77.5°	113.7	109.9	107.4	113.7	116.2
80°	73.7	69.9	69.9	72.4	74.9
82.5°	40.0	40.0	38.7	41.2	42.5
85°	16.2	16.2	17.5	17.5	17.5
87.5°	3.7	3.7	3.7	3.7	3.7
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	16.21	17.82	16.58	18.13	18.45	16.20	17.80	16.56	18.12	18.43
	3H	17.74	19.18	18.11	19.51	19.87	17.74	19.19	18.12	19.52	19.88
	4H	18.20	19.56	18.60	19.91	20.28	18.21	19.57	18.60	19.91	20.29
	6H	18.43	19.69	18.84	20.05	20.45	18.45	19.71	18.86	20.07	20.47
	8H	18.46	19.66	18.89	20.05	20.45	18.49	19.69	18.91	20.08	20.48
	12H	18.46	19.61	18.89	19.99	20.42	18.49	19.64	18.92	20.02	20.45
4H	2H	16.75	18.11	17.15	18.46	18.83	16.74	18.10	17.14	18.45	18.82
	3H	18.45	19.59	18.86	19.98	20.38	18.47	19.60	18.88	20.00	20.40
	4H	19.00	20.02	19.44	20.44	20.87	19.03	20.05	19.46	20.47	20.90
	6H	19.31	20.20	19.77	20.64	21.10	19.36	20.24	19.81	20.69	21.14
	8H	19.36	20.19	19.82	20.63	21.10	19.41	20.24	19.87	20.68	21.15
	12H	19.37	20.11	19.85	20.59	21.06	19.43	20.17	19.91	20.64	21.11
8H	4H	19.18	20.01	19.65	20.46	20.92	19.21	20.04	19.67	20.48	20.95
	6H	19.55	20.23	20.04	20.72	21.20	19.59	20.27	20.08	20.76	21.24
	8H	19.62	20.23	20.13	20.74	21.22	19.67	20.28	20.18	20.79	21.27
	12H	19.65	20.19	20.15	20.68	21.24	19.70	20.24	20.21	20.73	21.30
12H	4H	19.19	19.93	19.67	20.40	20.87	19.21	19.95	19.69	20.43	20.90
	6H	19.54	20.16	20.05	20.66	21.15	19.58	20.20	20.09	20.71	21.19
	8H	19.65	20.19	20.15	20.68	21.24	19.69	20.23	20.20	20.73	21.29