

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: P997407

Luminaire Tested: FSP-24-L3C3-CP187-3000K-HI

Issue Date: 6/20/2025

Test Information

Test Method: LM-79-2019
Report Number: P997407
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1905-304-17)
Test Lab: INNOVATION CENTER
Issue Date: 6/20/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FSP-24-L3C3-CP187-3000K-HI
Description: Fail-Safe Sealed Selectable Panel Clear Outer Lens/Frosted Inner Lens
Light Source: -
Ballast/Driver: -

Summary

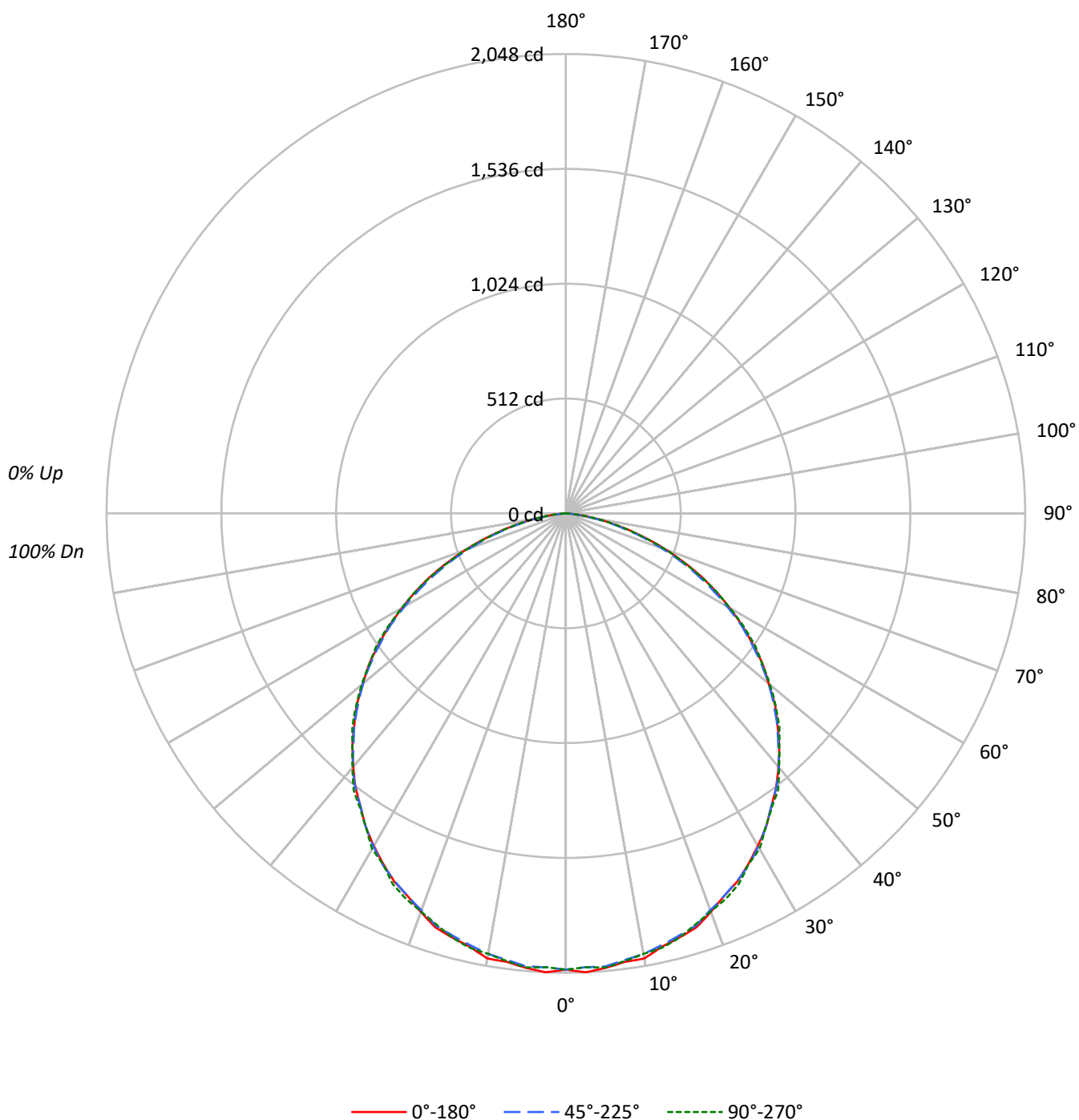
Lumens per Lamp: N/A
Luminaire Lumens: 5518.0 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 1.81' x L: 3.81' x H: 0')
CIE Type: Direct

Input Watts (W): 60.5
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	83	72	63	56	81	70	62	56	68	61	55		66	59	55		63
5	77	64	55	49	75	63	55	48	61	54	48		59	52	47		57
6	71	58	49	43	69	57	48	42	55	48	42		53	47	42		52
7	66	52	44	38	64	52	43	37	50	43	37		49	42	37		47
8	61	48	39	34	60	47	39	33	46	38	33		45	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	33	27	52	40	32	27	39	32	27		38	32	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3168	3168	3168
5°	3180	3170	3178
10°	3187	3154	3154
15°	3157	3143	3157
20°	3133	3122	3130
25°	3112	3106	3135
30°	3079	3085	3107
35°	3034	3034	3044
40°	2998	3005	3009
45°	2939	2935	2966
50°	2859	2859	2880
55°	2762	2743	2799
60°	2623	2585	2634
65°	2452	2376	2433
70°	2170	2075	2170
75°	1783	1668	1762
80°	1228	1165	1259
85°	588	558	588

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2966 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.4	3.5
10°-20°	551.3	10.0
20°-30°	833.7	15.1
30°-40°	1001.4	18.1
40°-50°	1028.7	18.6
50°-60°	907.6	16.4
60°-70°	646.0	11.7
70°-80°	307.3	5.6
80°-90°	49.6	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°	1577.4	28.6
0°-40°	2578.8	46.7
0°-60°	4515.1	81.8
0°-90°	5518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5518.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2034	2034	2034	2034	2034	
5°	2034	2032	2027	2022	2032	193
15°	1958	1952	1949	1956	1958	553
25°	1810	1807	1807	1810	1824	833
35°	1596	1597	1596	1611	1601	1000
45°	1334	1332	1332	1341	1346	1030
55°	1017	1019	1010	1017	1031	910
65°	665	660	644	650	660	655
75°	296	289	277	282	293	316
85°	33	31	31	33	33	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2034.0	2034.0	2034.0	2034.0	2034.0
2.5°	2047.8	2032.2	2025.3	2021.8	2025.3
5°	2034.0	2032.2	2027.0	2021.8	2032.2
7.5°	2016.6	2013.2	2008.0	2004.5	2013.2
10°	2014.9	2001.0	1994.1	1995.9	1994.1
12.5°	1978.5	1980.3	1971.6	1975.1	1983.7
15°	1957.7	1952.5	1949.1	1956.0	1957.7
17.5°	1935.2	1933.5	1926.5	1916.2	1921.4
20°	1890.2	1888.4	1883.2	1891.9	1888.4
22.5°	1845.1	1855.5	1845.1	1857.2	1860.7
25°	1810.5	1807.0	1807.0	1810.5	1824.3
27.5°	1762.0	1756.8	1767.2	1758.5	1763.7
30°	1711.7	1706.5	1715.2	1715.2	1727.3
32.5°	1659.7	1654.5	1659.7	1656.3	1658.0
35°	1595.6	1597.4	1595.6	1611.2	1600.8
37.5°	1540.2	1536.7	1541.9	1541.9	1554.1
40°	1474.4	1474.4	1477.8	1474.4	1479.6
42.5°	1408.5	1398.1	1401.6	1406.8	1408.5
45°	1334.0	1332.3	1332.3	1341.0	1346.2
47.5°	1264.7	1257.8	1256.1	1259.5	1268.2
50°	1179.8	1179.8	1179.8	1185.0	1188.5
52.5°	1107.1	1101.9	1096.7	1100.1	1103.6
55°	1017.0	1018.7	1010.1	1017.0	1030.8
57.5°	933.8	932.1	926.9	926.9	940.8
60°	842.0	842.0	829.9	838.5	845.5
62.5°	755.4	753.6	736.3	741.5	757.1
65°	665.3	660.1	644.5	649.7	660.1
67.5°	570.0	564.8	550.9	554.4	563.1
70°	476.4	473.0	455.6	460.8	476.4
72.5°	384.6	377.7	367.3	369.0	379.4
75°	296.3	289.3	277.2	282.4	292.8
77.5°	213.1	209.6	201.0	202.7	213.1
80°	136.9	135.1	129.9	133.4	140.3
82.5°	79.7	76.2	71.0	74.5	78.0
85°	32.9	31.2	31.2	32.9	32.9
87.5°	6.9	6.9	8.7	8.7	8.7
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	15.73	17.34	16.10	17.66	17.97	15.71	17.32	16.08	17.63	17.95
	3H	17.29	18.74	17.67	19.07	19.43	17.24	18.69	17.62	19.02	19.38
	4H	17.77	19.13	18.17	19.48	19.85	17.71	19.07	18.11	19.42	19.79
	6H	18.01	19.27	18.42	19.64	20.03	17.96	19.22	18.37	19.58	19.97
	8H	18.05	19.25	18.48	19.64	20.04	17.99	19.20	18.42	19.58	19.98
	12H	18.05	19.20	18.48	19.59	20.01	18.00	19.15	18.43	19.53	19.96
4H	2H	16.28	17.64	16.68	17.99	18.36	16.26	17.62	16.66	17.97	18.35
	3H	18.02	19.16	18.43	19.56	19.96	17.97	19.11	18.38	19.50	19.90
	4H	18.59	19.61	19.02	20.03	20.47	18.53	19.55	18.96	19.96	20.40
	6H	18.92	19.81	19.38	20.25	20.71	18.86	19.74	19.31	20.19	20.64
	8H	18.98	19.81	19.44	20.25	20.72	18.91	19.74	19.37	20.18	20.65
	12H	18.99	19.74	19.47	20.21	20.68	18.93	19.67	19.41	20.15	20.62
8H	4H	18.77	19.61	19.24	20.05	20.51	18.71	19.55	19.18	19.99	20.45
	6H	19.16	19.84	19.65	20.33	20.81	19.10	19.78	19.59	20.27	20.75
	8H	19.24	19.85	19.75	20.36	20.85	19.18	19.79	19.69	20.30	20.79
	12H	19.27	19.82	19.78	20.31	20.87	19.21	19.76	19.72	20.25	20.81
12H	4H	18.77	19.52	19.26	20.00	20.47	18.72	19.46	19.20	19.94	20.41
	6H	19.15	19.77	19.67	20.28	20.76	19.10	19.71	19.61	20.22	20.71
	8H	19.27	19.81	19.77	20.30	20.86	19.21	19.75	19.72	20.24	20.80