

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: P1498799

Luminaire Tested: MAE-G-2-120-3STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498799
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

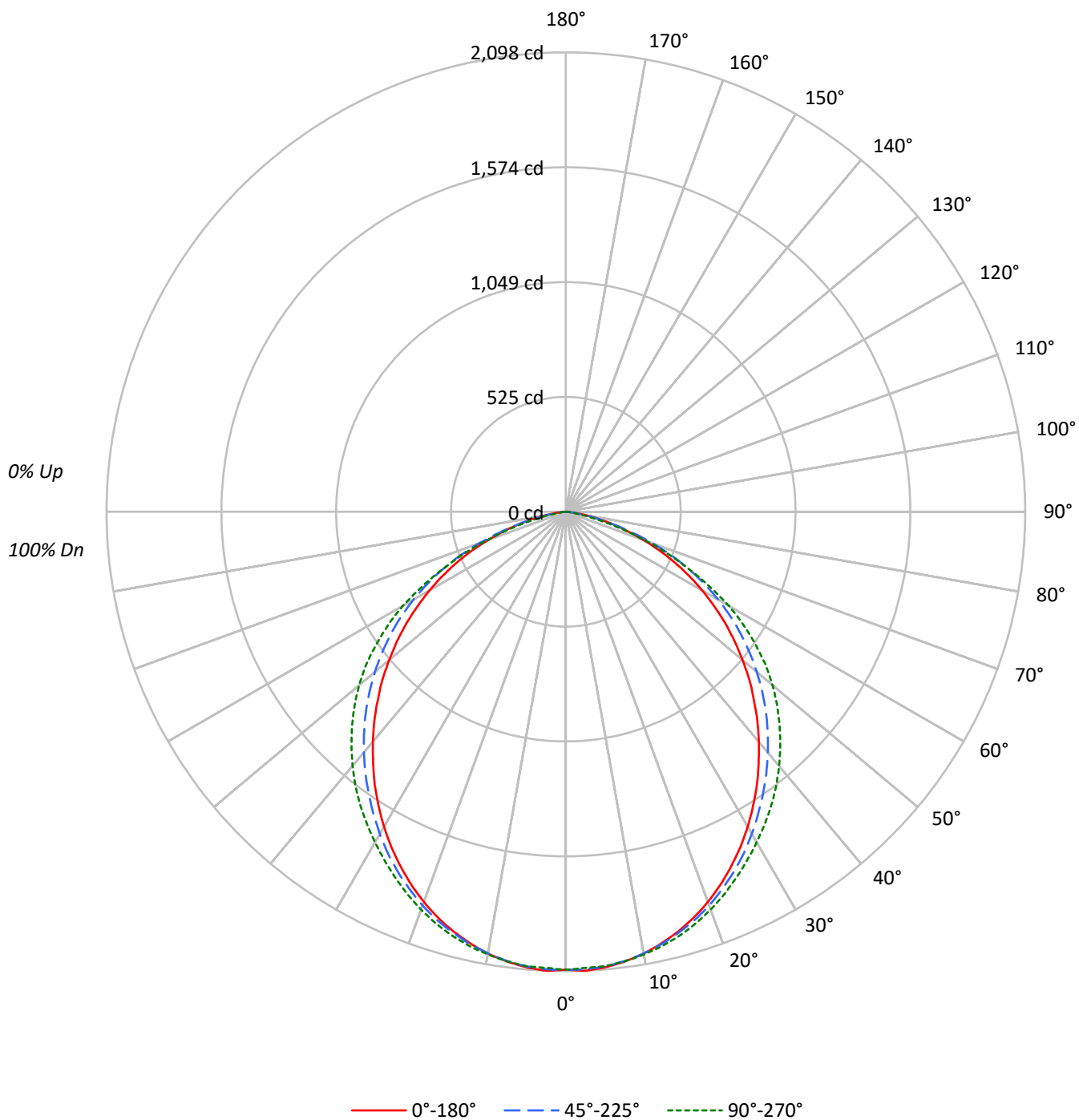
Lumens per Lamp: N/A
Luminaire Lumens: 5301.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	53		
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5628	5628	5628
5°	5640	5629	5626
10°	5599	5596	5609
15°	5528	5545	5585
20°	5431	5481	5538
25°	5305	5390	5475
30°	5161	5279	5417
35°	4999	5158	5376
40°	4817	5042	5322
45°	4621	4917	5254
50°	4407	4765	5161
55°	4170	4581	4962
60°	3870	4328	4630
65°	3495	3947	3966
70°	2983	3314	3082
75°	2342	2418	1895
80°	1530	1244	735
85°	732	491	389

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5254 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	3.7
10°-20°	560.9	10.6
20°-30°	834.2	15.7
30°-40°	983.0	18.5
40°-50°	996.7	18.8
50°-60°	868.5	16.4
60°-70°	594.0	11.2
70°-80°	238.6	4.5
80°-90°	27.7	0.5
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°	1592.6	30.0
0°-40°	2575.6	48.6
0°-60°	4440.8	83.8
0°-90°	5301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5301.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2092	2092	2092	2092	2092	
5°	2088	2076	2084	2081	2083	198
15°	1984	1975	1990	1999	2005	559
25°	1787	1787	1815	1828	1844	823
35°	1522	1529	1570	1609	1636	951
45°	1214	1231	1292	1350	1381	937
55°	889	908	976	1038	1058	793
65°	549	574	620	625	623	543
75°	225	240	233	200	182	242
85°	24	21	16	14	13	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2091.5	2091.5	2091.5	2091.5	2091.5
2.5°	2098.3	2084.3	2091.5	2090.0	2084.7
5°	2088.1	2075.5	2083.7	2081.4	2082.8
7.5°	2071.6	2060.1	2068.8	2068.3	2070.7
10°	2049.0	2037.3	2048.0	2049.9	2052.8
12.5°	2019.0	2009.3	2022.4	2026.2	2032.0
15°	1984.1	1975.4	1990.4	1998.6	2004.9
17.5°	1943.5	1936.2	1955.6	1963.4	1972.0
20°	1896.6	1891.3	1914.0	1921.3	1933.9
22.5°	1844.4	1841.5	1865.1	1876.3	1890.8
25°	1786.8	1787.3	1815.3	1828.5	1843.9
27.5°	1726.4	1727.4	1759.3	1777.6	1794.1
30°	1661.1	1664.0	1698.8	1721.6	1743.3
32.5°	1591.9	1597.7	1635.4	1666.4	1690.6
35°	1521.8	1528.6	1570.2	1608.8	1636.4
37.5°	1445.9	1457.1	1504.0	1549.9	1578.4
40°	1371.4	1382.6	1435.3	1486.0	1515.1
42.5°	1294.6	1308.6	1364.7	1421.3	1449.3
45°	1214.3	1230.7	1292.1	1350.2	1380.6
47.5°	1137.4	1151.9	1216.7	1277.2	1308.6
50°	1052.7	1071.1	1138.3	1201.7	1232.7
52.5°	972.0	988.9	1058.1	1122.9	1150.9
55°	888.9	907.7	976.4	1037.7	1057.6
57.5°	803.7	826.4	892.7	944.0	962.8
60°	719.1	741.8	804.2	846.3	860.3
62.5°	634.9	659.2	713.8	741.8	741.8
65°	548.9	573.5	619.9	624.7	622.8
67.5°	462.8	487.5	522.8	514.0	508.2
70°	379.1	400.4	421.2	405.2	391.7
72.5°	297.9	318.2	321.6	298.4	281.4
75°	225.3	240.4	232.6	199.8	182.3
77.5°	157.1	165.9	149.4	116.1	102.1
80°	98.7	102.5	80.3	56.5	47.4
82.5°	53.2	53.7	34.8	28.5	26.6
85°	23.7	21.3	15.9	14.0	12.6
87.5°	8.2	7.3	5.8	5.3	4.4
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	16.93	18.51	17.29	18.83	19.14	17.91	19.50	18.28	19.81	20.12
	3H	18.34	19.76	18.72	20.09	20.45	19.12	20.54	19.49	20.87	21.23
	4H	18.73	20.07	19.13	20.41	20.79	19.33	20.67	19.73	21.02	21.39
	6H	18.91	20.14	19.32	20.51	20.90	19.35	20.58	19.76	20.95	21.34
	8H	18.92	20.10	19.35	20.49	20.89	19.33	20.50	19.75	20.89	21.29
	12H	18.91	20.04	19.34	20.42	20.85	19.30	20.43	19.73	20.81	21.24
4H	2H	17.60	18.93	18.00	19.28	19.66	18.39	19.72	18.79	20.07	20.45
	3H	19.17	20.27	19.58	20.67	21.07	19.76	20.87	20.17	21.26	21.66
	4H	19.65	20.64	20.08	21.05	21.49	20.03	21.03	20.46	21.44	21.88
	6H	19.88	20.75	20.34	21.19	21.65	20.08	20.95	20.54	21.39	21.85
	8H	19.91	20.71	20.37	21.16	21.62	20.06	20.86	20.52	21.31	21.77
	12H	19.91	20.63	20.39	21.10	21.57	20.04	20.76	20.52	21.23	21.71
8H	4H	19.79	20.59	20.25	21.04	21.50	20.15	20.96	20.61	21.40	21.87
	6H	20.07	20.73	20.56	21.22	21.69	20.21	20.87	20.71	21.36	21.84
	8H	20.11	20.70	20.62	21.21	21.69	20.19	20.78	20.70	21.29	21.78
	12H	20.12	20.64	20.63	21.13	21.70	20.17	20.70	20.68	21.19	21.75
12H	4H	19.77	20.49	20.25	20.97	21.44	20.14	20.86	20.62	21.34	21.81
	6H	20.04	20.63	20.55	21.14	21.63	20.19	20.78	20.70	21.29	21.78
	8H	20.10	20.62	20.61	21.11	21.68	20.19	20.71	20.70	21.20	21.77