

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: P1498811

Luminaire Tested: MAE-G-2-120-3STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498811
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-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

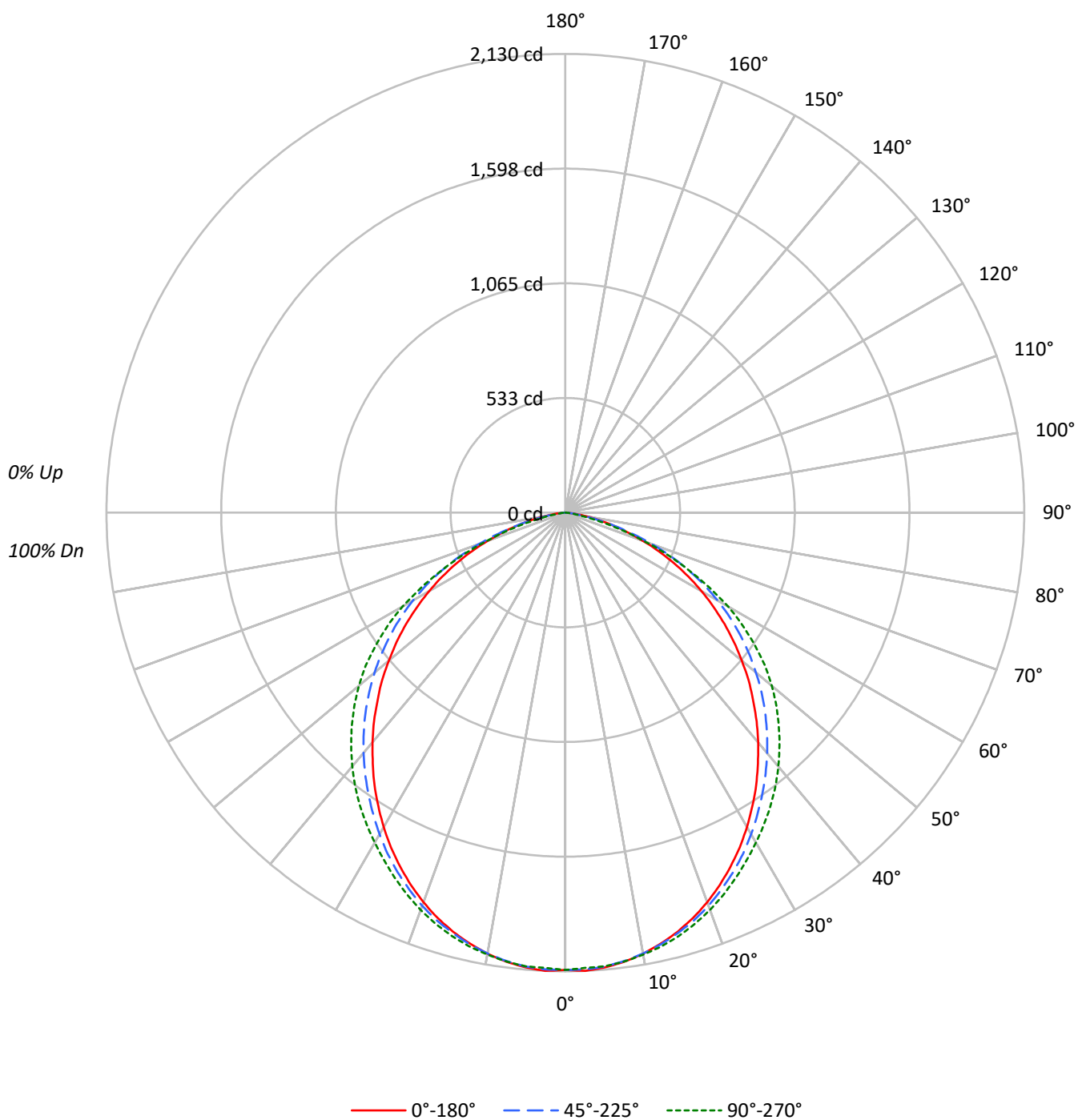
Lumens per Lamp: N/A
Luminaire Lumens: 5381.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5713	5713	5713
5°	5726	5714	5711
10°	5683	5681	5694
15°	5611	5629	5670
20°	5513	5564	5622
25°	5385	5471	5557
30°	5239	5358	5499
35°	5075	5236	5457
40°	4890	5118	5403
45°	4691	4991	5334
50°	4474	4837	5238
55°	4233	4650	5037
60°	3929	4393	4700
65°	3547	4007	4025
70°	3028	3364	3128
75°	2378	2455	1925
80°	1551	1263	745
85°	744	500	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.7
10°-20°	569.4	10.6
20°-30°	846.8	15.7
30°-40°	997.8	18.5
40°-50°	1011.7	18.8
50°-60°	881.6	16.4
60°-70°	602.9	11.2
70°-80°	242.2	4.5
80°-90°	28.1	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°	1616.7	30.0
0°-40°	2614.5	48.6
0°-60°	4507.8	83.8
0°-90°	5381.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2123	2123	2123	2123	2123	
5°	2120	2107	2115	2113	2114	201
15°	2014	2005	2020	2029	2035	567
25°	1814	1814	1843	1856	1872	835
35°	1545	1552	1594	1633	1661	965
45°	1233	1249	1312	1370	1402	951
55°	902	921	991	1053	1074	805
65°	557	582	629	634	632	551
75°	229	244	236	203	185	246
85°	24	22	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°	2123.1	2123.1	2123.1	2123.1	2123.1
2.5°	2129.9	2115.7	2123.1	2121.6	2116.1
5°	2119.6	2106.8	2115.2	2112.8	2114.2
7.5°	2102.9	2091.2	2100.0	2099.5	2101.9
10°	2079.9	2068.1	2078.9	2080.9	2083.8
12.5°	2049.4	2039.7	2052.9	2056.8	2062.7
15°	2014.1	2005.3	2020.5	2028.8	2035.2
17.5°	1972.8	1965.4	1985.1	1993.0	2001.8
20°	1925.2	1919.9	1942.9	1950.3	1963.1
22.5°	1872.2	1869.3	1893.3	1904.6	1919.3
25°	1813.8	1814.3	1842.7	1856.1	1871.7
27.5°	1752.5	1753.4	1785.9	1804.4	1821.1
30°	1686.2	1689.1	1724.5	1747.6	1769.6
32.5°	1616.0	1621.8	1660.1	1691.6	1716.1
35°	1544.8	1551.6	1593.9	1633.1	1661.1
37.5°	1467.8	1479.0	1526.7	1573.3	1602.2
40°	1392.1	1403.4	1456.9	1508.4	1538.0
42.5°	1314.1	1328.3	1385.3	1442.7	1471.1
45°	1232.6	1249.2	1311.6	1370.5	1401.5
47.5°	1154.5	1169.3	1235.0	1296.4	1328.3
50°	1068.6	1087.3	1155.5	1219.8	1251.3
52.5°	986.7	1003.8	1074.0	1139.9	1168.3
55°	902.3	921.4	991.1	1053.4	1073.6
57.5°	815.8	838.9	906.2	958.3	977.4
60°	730.0	753.0	816.3	859.1	873.3
62.5°	644.5	669.1	724.6	753.0	753.0
65°	557.1	582.2	629.3	634.2	632.2
67.5°	469.8	494.9	530.7	521.8	515.9
70°	384.8	406.4	427.6	411.3	397.6
72.5°	302.4	323.0	326.5	302.9	285.7
75°	228.7	244.0	236.1	202.8	185.1
77.5°	159.5	168.4	151.7	117.8	103.6
80°	100.1	104.0	81.5	57.4	48.1
82.5°	54.0	54.5	35.4	29.0	27.0
85°	24.1	21.6	16.2	14.2	12.8
87.5°	8.4	7.4	5.9	5.4	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	16.98	18.56	17.35	18.88	19.19	17.97	19.55	18.33	19.86	20.18
	3H	18.39	19.81	18.77	20.14	20.50	19.17	20.59	19.55	20.92	21.28
	4H	18.78	20.12	19.18	20.47	20.84	19.39	20.72	19.78	21.07	21.44
	6H	18.96	20.19	19.37	20.56	20.95	19.40	20.64	19.81	21.00	21.39
	8H	18.97	20.15	19.40	20.54	20.94	19.38	20.55	19.81	20.94	21.34
	12H	18.97	20.09	19.40	20.47	20.90	19.36	20.48	19.79	20.86	21.29
4H	2H	17.65	18.99	18.05	19.33	19.71	18.44	19.78	18.84	20.13	20.50
	3H	19.22	20.33	19.63	20.73	21.13	19.81	20.92	20.22	21.32	21.72
	4H	19.70	20.69	20.13	21.11	21.54	20.09	21.08	20.52	21.49	21.93
	6H	19.94	20.80	20.39	21.24	21.70	20.14	21.00	20.59	21.44	21.90
	8H	19.96	20.76	20.42	21.21	21.67	20.11	20.92	20.57	21.36	21.83
	12H	19.96	20.68	20.44	21.16	21.63	20.09	20.81	20.57	21.29	21.76
8H	4H	19.84	20.65	20.30	21.09	21.56	20.20	21.01	20.67	21.45	21.92
	6H	20.12	20.78	20.61	21.27	21.75	20.26	20.92	20.76	21.42	21.89
	8H	20.16	20.75	20.67	21.26	21.75	20.24	20.83	20.75	21.34	21.83
	12H	20.17	20.69	20.68	21.19	21.75	20.23	20.75	20.73	21.24	21.80
12H	4H	19.82	20.54	20.31	21.02	21.49	20.19	20.91	20.67	21.39	21.86
	6H	20.09	20.68	20.60	21.19	21.68	20.24	20.83	20.75	21.34	21.83
	8H	20.15	20.68	20.66	21.17	21.73	20.24	20.76	20.75	21.25	21.82