

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: P1498238

Luminaire Tested: MAE-G-2-120-1STD-50-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498238
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

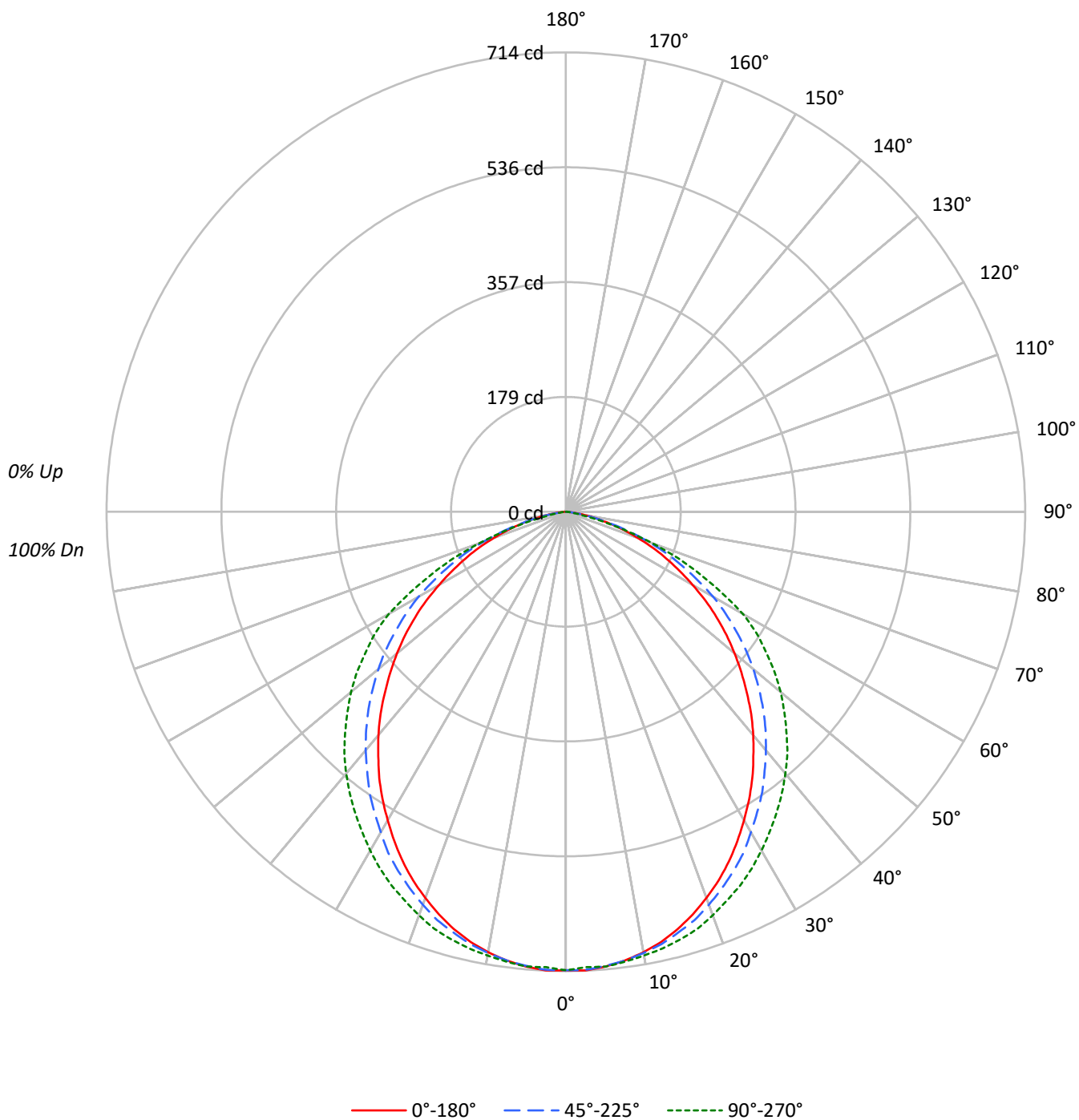
Lumens per Lamp: N/A
Luminaire Lumens: 1794.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		55	48	43		53
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1918	1918	1918
5°	1917	1914	1917
10°	1900	1902	1914
15°	1871	1885	1917
20°	1829	1861	1912
25°	1781	1830	1903
30°	1720	1787	1889
35°	1661	1748	1876
40°	1592	1700	1866
45°	1514	1650	1846
50°	1434	1593	1824
55°	1342	1515	1780
60°	1225	1424	1710
65°	1097	1273	1469
70°	935	1073	1121
75°	725	778	629
80°	477	414	223
85°	253	191	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1846 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	3.8
10°-20°	191.2	10.7
20°-30°	284.4	15.9
30°-40°	334.3	18.6
40°-50°	337.4	18.8
50°-60°	293.0	16.3
60°-70°	199.4	11.1
70°-80°	77.7	4.3
80°-90°	9.3	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°	542.9	30.3
0°-40°	877.2	48.9
0°-60°	1507.6	84.0
0°-90°	1794.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1794.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	710	708	708	708	710	67
15°	672	673	677	684	688	189
25°	600	603	616	632	641	276
35°	506	512	532	557	571	316
45°	398	408	434	468	485	307
55°	286	295	323	360	379	255
65°	172	180	200	222	231	171
75°	70	74	75	68	60	76
85°	8	8	6	5	4	12
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	712.6	712.6	712.6	712.6	712.6
2.5°	713.6	713.6	712.6	709.5	708.5
5°	709.5	708.5	708.5	708.5	709.5
7.5°	703.4	703.4	703.4	704.4	705.4
10°	695.2	695.2	696.2	698.2	700.3
12.5°	684.9	685.9	688.0	692.1	695.2
15°	671.6	672.6	676.7	683.9	688.0
17.5°	656.2	659.3	665.4	673.6	679.8
20°	638.8	641.8	650.0	660.3	667.5
22.5°	620.3	623.4	633.6	645.9	654.1
25°	599.8	602.9	616.2	631.6	640.8
27.5°	577.2	581.4	597.8	614.2	625.4
30°	553.7	558.8	575.2	595.7	608.0
32.5°	530.1	536.2	553.7	577.2	589.6
35°	505.5	511.6	532.1	556.7	571.1
37.5°	478.8	486.0	507.5	537.3	551.6
40°	453.2	460.4	483.9	515.7	531.1
42.5°	426.5	434.7	459.3	492.1	509.6
45°	397.8	408.1	433.7	467.5	485.0
47.5°	370.1	379.4	407.0	441.9	460.4
50°	342.5	352.7	380.4	416.3	435.8
52.5°	314.8	324.0	352.7	388.6	409.1
55°	286.1	295.3	323.0	359.9	379.4
57.5°	257.4	268.6	294.3	330.1	351.7
60°	227.6	237.9	264.5	300.4	317.8
62.5°	199.9	209.2	231.7	265.6	273.8
65°	172.3	180.5	199.9	221.5	230.7
67.5°	146.6	152.8	170.2	184.6	188.7
70°	118.9	125.1	136.4	144.6	142.5
72.5°	94.3	98.4	105.6	104.6	99.5
75°	69.7	73.8	74.8	67.7	60.5
77.5°	49.2	51.3	48.2	37.9	30.8
80°	30.8	31.8	26.7	16.4	14.4
82.5°	17.4	17.4	12.3	10.3	8.2
85°	8.2	8.2	6.2	5.1	4.1
87.5°	3.1	3.1	2.1	2.1	2.1
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	12.87	14.44	13.23	14.76	15.07	14.44	16.02	14.81	16.34	16.65
	3H	14.20	15.62	14.58	15.95	16.31	15.71	17.13	16.09	17.46	17.82
	4H	14.57	15.90	14.97	16.25	16.62	15.91	17.24	16.31	17.59	17.96
	6H	14.73	15.96	15.14	16.33	16.72	15.91	17.13	16.32	17.50	17.89
	8H	14.75	15.92	15.17	16.31	16.71	15.88	17.05	16.31	17.44	17.84
	12H	14.74	15.86	15.17	16.24	16.67	15.86	16.97	16.29	17.36	17.79
4H	2H	13.53	14.86	13.93	15.21	15.59	14.82	16.15	15.22	16.50	16.88
	3H	15.03	16.13	15.44	16.53	16.93	16.26	17.36	16.67	17.76	18.16
	4H	15.47	16.46	15.90	16.87	17.31	16.51	17.50	16.95	17.92	18.35
	6H	15.70	16.55	16.15	17.00	17.45	16.54	17.40	17.00	17.84	18.30
	8H	15.72	16.52	16.18	16.96	17.43	16.51	17.31	16.98	17.76	18.22
	12H	15.72	16.44	16.20	16.92	17.39	16.49	17.21	16.97	17.68	18.16
8H	4H	15.63	16.43	16.09	16.87	17.34	16.60	17.40	17.06	17.84	18.31
	6H	15.89	16.55	16.38	17.04	17.51	16.63	17.29	17.13	17.78	18.26
	8H	15.93	16.52	16.44	17.03	17.52	16.61	17.19	17.12	17.70	18.19
	12H	15.95	16.47	16.46	16.96	17.52	16.59	17.11	17.10	17.60	18.16
12H	4H	15.61	16.32	16.09	16.80	17.27	16.58	17.30	17.06	17.78	18.25
	6H	15.86	16.45	16.37	16.96	17.45	16.60	17.19	17.12	17.70	18.19
	8H	15.93	16.45	16.44	16.94	17.50	16.60	17.12	17.11	17.61	18.18