

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: P1498229

Luminaire Tested: MAE-G-2-120-1STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498229
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-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

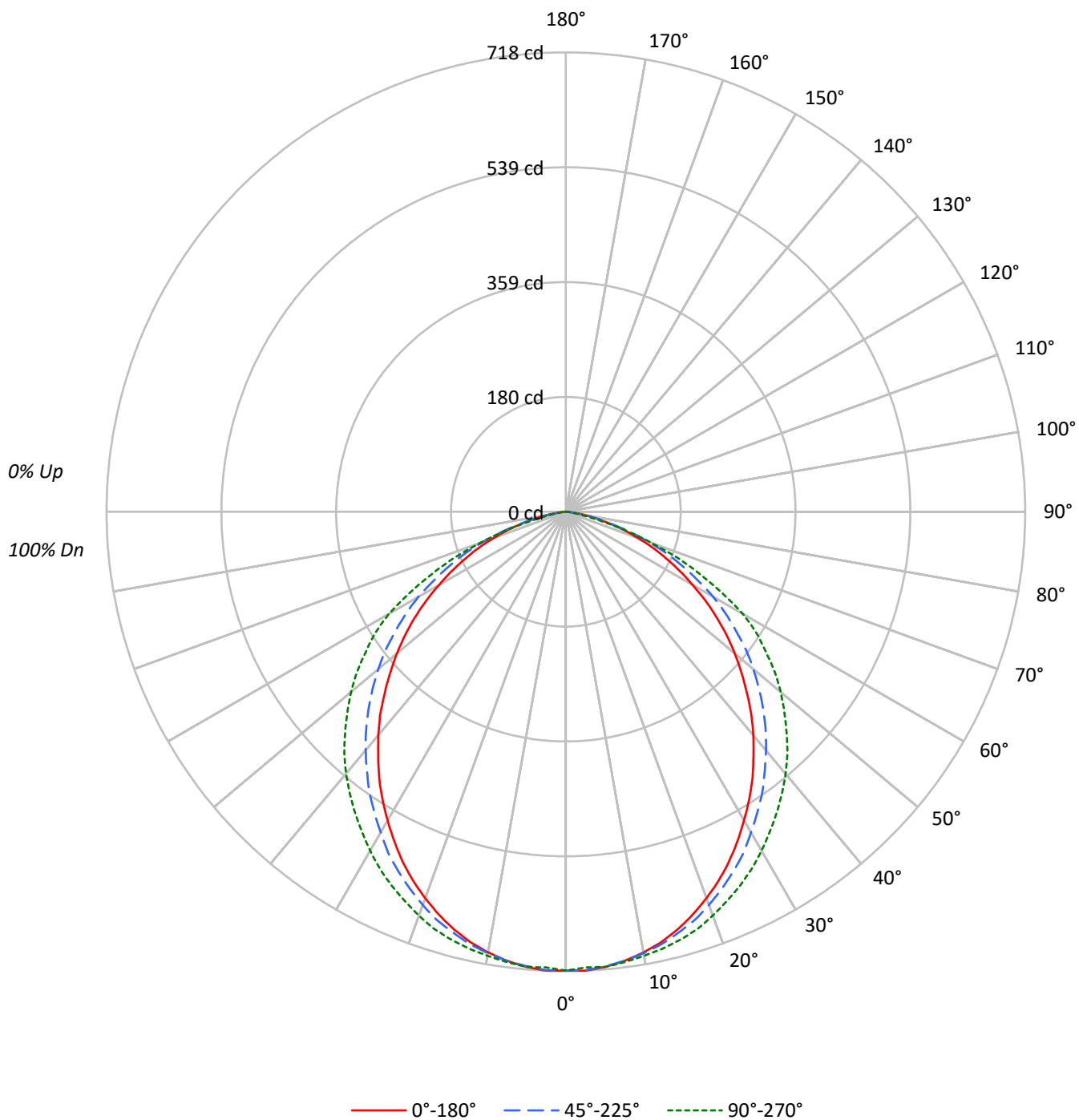
Lumens per Lamp: N/A
Luminaire Lumens: 1805.0 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	1929	1929	1929
5°	1928	1925	1928
10°	1911	1914	1925
15°	1882	1897	1928
20°	1840	1873	1923
25°	1792	1841	1914
30°	1731	1798	1901
35°	1671	1759	1888
40°	1602	1710	1877
45°	1523	1661	1857
50°	1443	1602	1835
55°	1350	1525	1791
60°	1232	1433	1721
65°	1103	1281	1478
70°	942	1079	1128
75°	729	783	633
80°	479	415	223
85°	256	191	127

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1857 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.7	3.8
10°-20°	192.4	10.7
20°-30°	286.1	15.8
30°-40°	336.4	18.6
40°-50°	339.5	18.8
50°-60°	294.8	16.3
60°-70°	200.6	11.1
70°-80°	78.2	4.3
80°-90°	9.4	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°	546.2	30.3
0°-40°	882.6	48.9
0°-60°	1516.9	84.0
0°-90°	1805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	717	717	717	717	717	
5°	714	713	713	713	714	68
15°	676	677	681	688	692	190
25°	604	607	620	636	645	278
35°	509	515	535	560	575	318
45°	400	411	436	470	488	309
55°	288	297	325	362	382	257
65°	173	182	201	223	232	172
75°	70	74	75	68	61	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°	717.0	717.0	717.0	717.0	717.0
2.5°	718.0	718.0	717.0	713.9	712.8
5°	713.9	712.8	712.8	712.8	713.9
7.5°	707.7	707.7	707.7	708.7	709.7
10°	699.4	699.4	700.5	702.5	704.6
12.5°	689.1	690.1	692.2	696.3	699.4
15°	675.7	676.7	680.9	688.1	692.2
17.5°	660.2	663.3	669.5	677.8	683.9
20°	642.7	645.8	654.0	664.3	671.6
22.5°	624.1	627.2	637.5	649.9	658.2
25°	603.5	606.6	620.0	635.5	644.7
27.5°	580.8	584.9	601.4	617.9	629.3
30°	557.1	562.2	578.7	599.4	611.7
32.5°	533.3	539.5	557.1	580.8	593.2
35°	508.6	514.8	535.4	560.2	574.6
37.5°	481.8	489.0	510.6	540.6	555.0
40°	456.0	463.2	486.9	518.9	534.4
42.5°	429.1	437.4	462.2	495.2	512.7
45°	400.3	410.6	436.4	470.4	487.9
47.5°	372.4	381.7	409.5	444.6	463.2
50°	344.6	354.9	382.7	418.8	438.4
52.5°	316.7	326.0	354.9	391.0	411.6
55°	287.8	297.1	325.0	362.1	381.7
57.5°	258.9	270.3	296.1	332.2	353.8
60°	229.0	239.3	266.2	302.3	319.8
62.5°	201.2	210.4	233.1	267.2	275.4
65°	173.3	181.6	201.2	222.8	232.1
67.5°	147.5	153.7	171.2	185.7	189.8
70°	119.7	125.9	137.2	145.5	143.4
72.5°	94.9	99.0	106.3	105.2	100.1
75°	70.1	74.3	75.3	68.1	60.9
77.5°	49.5	51.6	48.5	38.2	30.9
80°	30.9	32.0	26.8	16.5	14.4
82.5°	17.5	17.5	12.4	10.3	8.3
85°	8.3	8.3	6.2	5.2	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	12.89	14.47	13.25	14.78	15.09	14.47	16.05	14.83	16.36	16.67
	3H	14.22	15.64	14.60	15.97	16.33	15.74	17.15	16.11	17.48	17.84
	4H	14.59	15.92	14.99	16.27	16.65	15.93	17.26	16.33	17.61	17.99
	6H	14.75	15.98	15.17	16.35	16.74	15.93	17.16	16.34	17.52	17.91
	8H	14.77	15.94	15.19	16.33	16.73	15.90	17.07	16.33	17.46	17.86
	12H	14.76	15.88	15.19	16.26	16.69	15.88	17.00	16.31	17.38	17.81
4H	2H	13.55	14.88	13.95	15.23	15.61	14.84	16.17	15.24	16.52	16.90
	3H	15.05	16.15	15.46	16.55	16.95	16.28	17.38	16.69	17.78	18.18
	4H	15.49	16.48	15.92	16.90	17.33	16.53	17.52	16.97	17.94	18.38
	6H	15.72	16.58	16.17	17.02	17.48	16.56	17.42	17.02	17.86	18.32
	8H	15.74	16.54	16.20	16.99	17.45	16.54	17.34	17.00	17.78	18.25
	12H	15.75	16.46	16.23	16.94	17.41	16.51	17.23	17.00	17.71	18.18
8H	4H	15.65	16.45	16.11	16.89	17.36	16.62	17.42	17.08	17.86	18.33
	6H	15.91	16.57	16.41	17.06	17.54	16.65	17.31	17.15	17.80	18.28
	8H	15.95	16.54	16.46	17.05	17.54	16.63	17.22	17.14	17.72	18.21
	12H	15.97	16.49	16.48	16.98	17.55	16.61	17.13	17.12	17.62	18.19
12H	4H	15.63	16.35	16.11	16.82	17.29	16.60	17.32	17.09	17.80	18.27
	6H	15.88	16.47	16.39	16.98	17.47	16.63	17.22	17.14	17.73	18.21
	8H	15.95	16.47	16.46	16.96	17.52	16.62	17.14	17.13	17.63	18.20