

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: P1498487

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

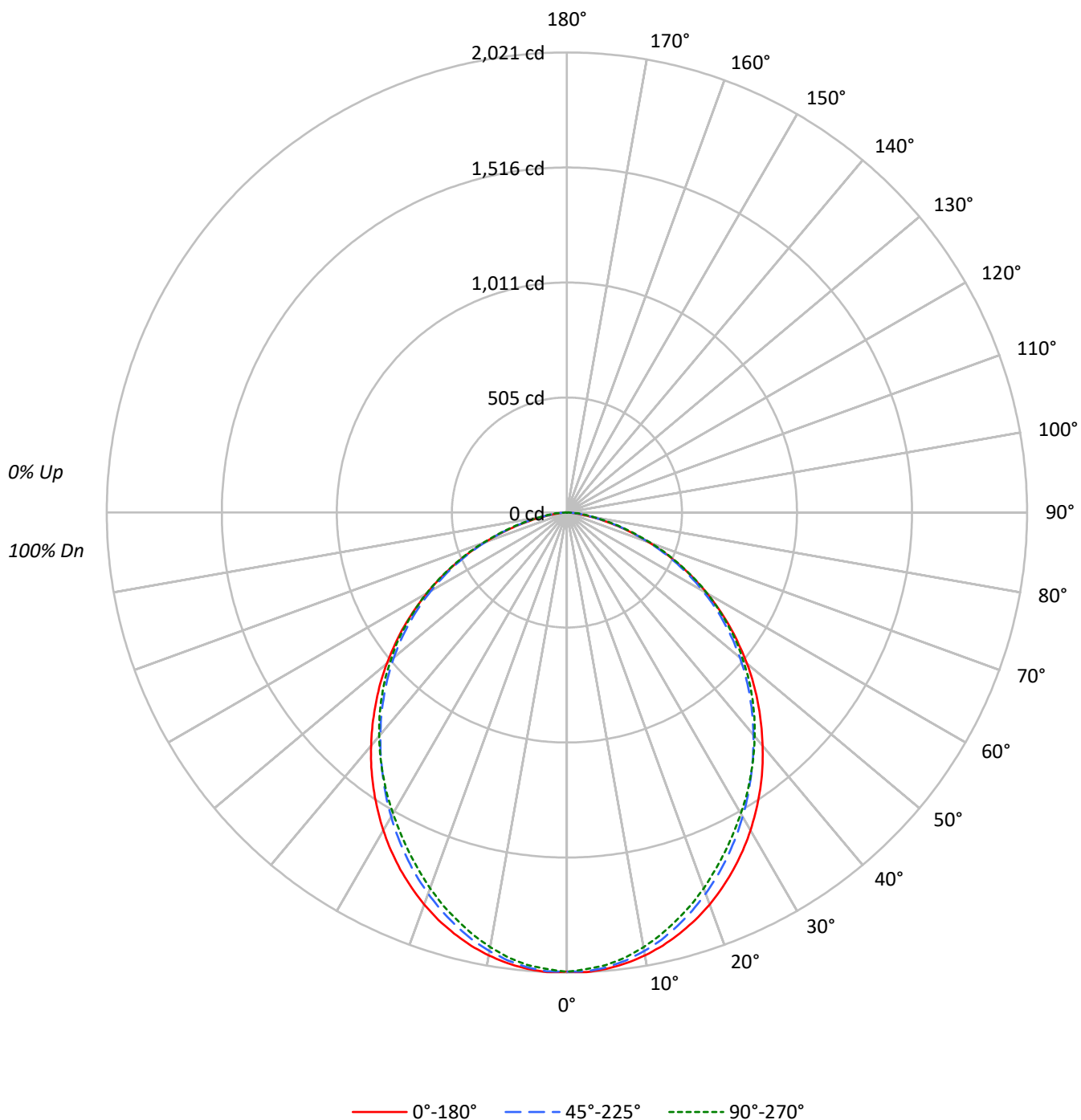
Lumens per Lamp: N/A
Luminaire Lumens: 4875.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64	59	55	53
5	78	65	56	50	75	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	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5429	5429	5429
5°	5436	5417	5389
10°	5399	5347	5297
15°	5334	5237	5170
20°	5248	5102	5030
25°	5139	4955	4880
30°	5010	4796	4744
35°	4865	4632	4625
40°	4698	4477	4506
45°	4519	4321	4382
50°	4322	4153	4230
55°	4096	3956	4052
60°	3824	3715	3834
65°	3483	3404	3517
70°	3014	3002	3094
75°	2408	2485	2538
80°	1643	1807	1903
85°	858	1275	1664

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	3.9
10°-20°	529.5	10.9
20°-30°	771.8	15.8
30°-40°	892.3	18.3
40°-50°	888.0	18.2
50°-60°	763.3	15.7
60°-70°	535.4	11.0
70°-80°	254.2	5.2
80°-90°	50.9	1.0
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°	1490.9	30.6
0°-40°	2383.3	48.9
0°-60°	4034.6	82.8
0°-90°	4875.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4875.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2017	2017	2017	2017	2017	
5°	2012	2006	2005	1992	1995	191
15°	1914	1900	1880	1855	1856	540
25°	1731	1707	1669	1643	1644	797
35°	1481	1449	1410	1402	1408	926
45°	1187	1158	1135	1143	1151	916
55°	873	849	843	857	864	780
65°	547	532	535	546	552	541
75°	232	226	239	243	244	249
85°	28	32	41	50	54	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2017.3	2017.3	2017.3	2017.3	2017.3
2.5°	2021.1	2015.8	2017.3	2007.1	2007.5
5°	2012.5	2006.1	2005.4	1992.1	1995.1
7.5°	1997.1	1989.1	1984.7	1969.1	1971.7
10°	1975.9	1965.5	1956.7	1937.4	1938.5
12.5°	1948.5	1936.2	1922.0	1899.3	1900.9
15°	1914.5	1900.3	1879.8	1855.2	1855.6
17.5°	1876.9	1860.8	1833.1	1806.7	1809.2
20°	1832.7	1814.3	1781.7	1754.3	1756.6
22.5°	1783.5	1762.4	1727.8	1700.2	1700.5
25°	1730.8	1707.0	1668.8	1642.9	1643.5
27.5°	1673.8	1647.2	1607.3	1583.4	1585.3
30°	1612.5	1584.2	1543.4	1523.5	1526.8
32.5°	1547.9	1518.3	1478.2	1463.9	1469.6
35°	1480.9	1449.4	1410.1	1401.5	1408.0
37.5°	1411.0	1379.8	1342.9	1339.8	1346.3
40°	1337.4	1307.4	1274.6	1275.2	1282.7
42.5°	1263.2	1233.8	1205.8	1210.3	1218.3
45°	1187.4	1157.9	1135.3	1142.7	1151.4
47.5°	1111.6	1082.3	1064.9	1074.6	1082.3
50°	1032.5	1005.4	991.9	1003.5	1010.5
52.5°	951.9	926.7	918.2	931.2	941.0
55°	873.0	848.9	843.2	856.8	863.7
57.5°	791.6	771.2	767.9	780.9	788.2
60°	710.6	691.4	690.3	704.1	712.3
62.5°	628.6	611.2	612.9	626.3	632.7
65°	547.0	532.4	534.6	546.0	552.4
67.5°	466.1	452.9	458.2	470.8	474.2
70°	383.1	372.9	381.6	391.4	393.2
72.5°	306.1	297.2	308.0	315.3	315.6
75°	231.6	226.0	239.0	242.7	244.1
77.5°	163.9	163.2	173.2	177.0	178.9
80°	106.0	109.4	116.6	122.1	122.8
82.5°	60.1	64.2	71.4	81.7	85.7
85°	27.8	32.2	41.3	50.0	53.9
87.5°	9.3	12.6	17.4	18.9	18.0
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	16.81	18.39	17.17	18.70	19.02	16.88	18.46	17.24	18.77	19.09
	3H	18.28	19.71	18.66	20.03	20.39	18.41	19.83	18.78	20.16	20.52
	4H	18.71	20.05	19.11	20.40	20.78	18.87	20.21	19.27	20.56	20.93
	6H	18.93	20.16	19.34	20.53	20.92	19.13	20.37	19.54	20.73	21.12
	8H	18.96	20.14	19.38	20.53	20.93	19.20	20.38	19.62	20.76	21.16
	12H	18.96	20.09	19.39	20.47	20.90	19.24	20.37	19.67	20.75	21.18
4H	2H	17.35	18.68	17.74	19.03	19.41	17.40	18.74	17.80	19.09	19.46
	3H	19.00	20.11	19.41	20.51	20.91	19.12	20.24	19.53	20.64	21.04
	4H	19.52	20.52	19.95	20.93	21.37	19.69	20.69	20.12	21.10	21.54
	6H	19.81	20.68	20.27	21.13	21.58	20.04	20.91	20.49	21.35	21.81
	8H	19.86	20.68	20.32	21.12	21.58	20.13	20.95	20.59	21.39	21.85
	12H	19.88	20.61	20.36	21.08	21.55	20.20	20.93	20.68	21.41	21.88
8H	4H	19.72	20.53	20.18	20.98	21.44	19.87	20.68	20.33	21.13	21.59
	6H	20.07	20.75	20.57	21.24	21.71	20.29	20.96	20.78	21.45	21.93
	8H	20.15	20.75	20.66	21.26	21.75	20.43	21.03	20.94	21.54	22.02
	12H	20.19	20.72	20.70	21.21	21.78	20.55	21.08	21.06	21.57	22.13
12H	4H	19.72	20.45	20.20	20.93	21.40	19.87	20.60	20.35	21.08	21.55
	6H	20.08	20.68	20.59	21.19	21.68	20.29	20.89	20.80	21.40	21.89
	8H	20.19	20.73	20.70	21.22	21.78	20.47	21.00	20.98	21.49	22.05