

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: P1498559

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498559
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-2-120-2STD-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

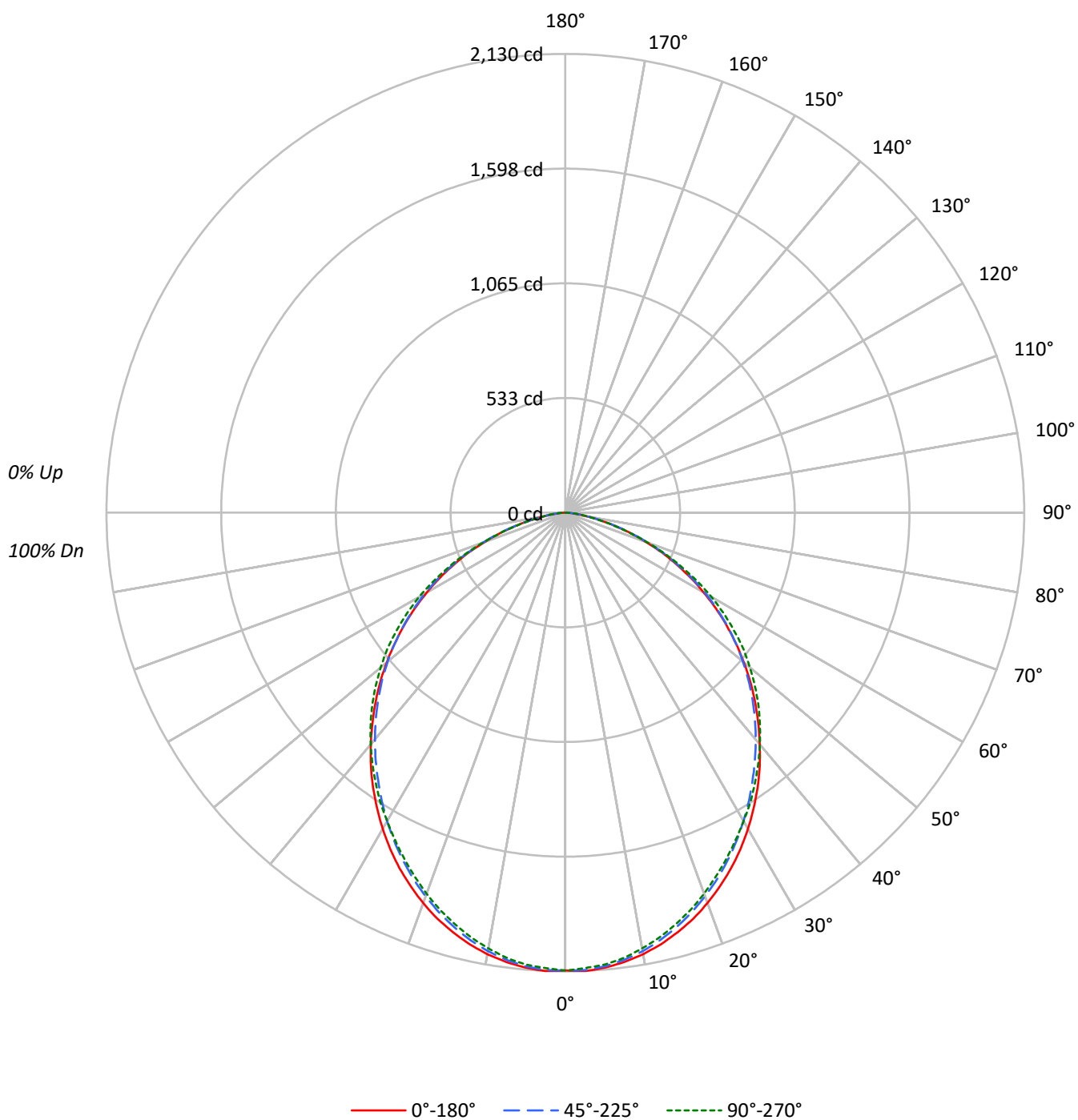
Lumens per Lamp: N/A
Luminaire Lumens: 5204.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5721	5721	5721
5°	5730	5712	5690
10°	5689	5650	5615
15°	5618	5551	5511
20°	5525	5429	5392
25°	5408	5291	5258
30°	5268	5139	5140
35°	5112	4980	5039
40°	4932	4830	4935
45°	4740	4675	4825
50°	4530	4506	4681
55°	4289	4303	4490
60°	3999	4048	4222
65°	3632	3699	3791
70°	3131	3205	3211
75°	2490	2554	2457
80°	1677	1708	1636
85°	849	1087	1352

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4825 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.1	3.8
10°-20°	561.4	10.8
20°-30°	822.9	15.8
30°-40°	956.7	18.4
40°-50°	957.3	18.4
50°-60°	826.0	15.9
60°-70°	574.2	11.0
70°-80°	259.6	5.0
80°-90°	46.0	0.9
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°	1584.3	30.4
0°-40°	2541.0	48.8
0°-60°	4324.3	83.1
0°-90°	5204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2121	2113	2115	2104	2106	201
15°	2016	2003	1993	1976	1978	568
25°	1821	1804	1782	1767	1771	838
35°	1556	1534	1516	1522	1534	972
45°	1246	1228	1228	1252	1268	961
55°	914	902	917	945	957	816
65°	570	567	581	590	595	564
75°	240	239	246	239	236	258
85°	28	30	35	41	44	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2125.9	2125.9	2125.9	2125.9	2125.9
2.5°	2130.5	2122.4	2125.9	2117.8	2116.5
5°	2121.1	2112.7	2114.6	2103.9	2106.4
7.5°	2104.6	2095.4	2094.8	2083.0	2085.5
10°	2081.9	2070.8	2067.6	2053.3	2054.8
12.5°	2052.7	2040.7	2034.0	2017.9	2020.6
15°	2016.5	2003.4	1992.7	1976.4	1978.3
17.5°	1976.7	1963.0	1946.9	1929.9	1934.1
20°	1929.3	1914.8	1895.9	1878.1	1882.9
22.5°	1877.1	1860.8	1841.6	1824.3	1827.7
25°	1821.3	1803.7	1781.9	1766.9	1771.0
27.5°	1760.6	1741.2	1719.6	1706.9	1712.8
30°	1695.4	1675.3	1653.9	1646.3	1654.2
32.5°	1626.8	1606.7	1586.4	1585.5	1596.8
35°	1556.0	1534.5	1515.8	1521.5	1533.9
37.5°	1482.4	1461.4	1446.0	1457.9	1470.9
40°	1404.0	1385.1	1374.9	1391.1	1404.8
42.5°	1325.6	1307.7	1302.6	1323.2	1338.0
45°	1245.5	1227.9	1228.5	1252.0	1267.8
47.5°	1166.2	1148.2	1153.7	1179.8	1194.0
50°	1082.1	1066.9	1076.3	1103.8	1118.1
52.5°	997.9	984.0	997.5	1026.4	1043.0
55°	914.2	901.8	917.2	945.4	957.1
57.5°	828.4	819.7	836.2	860.7	871.9
60°	743.1	735.3	752.1	774.2	784.5
62.5°	656.7	650.6	667.4	684.6	690.2
65°	570.4	567.0	580.9	589.7	595.3
67.5°	485.8	482.2	495.1	502.0	503.3
70°	397.9	397.3	407.4	409.6	408.1
72.5°	317.5	316.0	323.5	321.4	318.2
75°	239.5	239.3	245.6	238.9	236.3
77.5°	168.4	171.3	172.1	166.1	163.8
80°	108.2	112.2	110.2	107.6	105.6
82.5°	60.4	63.3	63.3	69.2	71.6
85°	27.5	30.1	35.2	41.4	43.8
87.5°	9.4	11.5	14.7	15.7	14.7
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	18.57	17.35	18.88	19.20	17.33	18.91	17.69	19.23	19.54
	3H	18.44	19.87	18.82	20.19	20.55	18.75	20.17	19.12	20.50	20.86
	4H	18.86	20.20	19.26	20.55	20.92	19.13	20.46	19.53	20.81	21.19
	6H	19.06	20.30	19.48	20.67	21.06	19.30	20.53	19.71	20.90	21.29
	8H	19.09	20.27	19.52	20.66	21.06	19.33	20.51	19.75	20.89	21.29
	12H	19.09	20.21	19.52	20.60	21.03	19.34	20.47	19.77	20.85	21.28
4H	2H	17.56	18.90	17.96	19.24	19.62	17.84	19.17	18.24	19.52	19.90
	3H	19.19	20.30	19.60	20.70	21.10	19.44	20.55	19.85	20.95	21.35
	4H	19.70	20.70	20.13	21.11	21.55	19.90	20.90	20.34	21.32	21.75
	6H	19.97	20.84	20.43	21.28	21.74	20.15	21.01	20.60	21.46	21.91
	8H	20.01	20.83	20.48	21.27	21.74	20.19	21.01	20.66	21.45	21.92
	12H	20.02	20.75	20.51	21.23	21.70	20.23	20.96	20.71	21.43	21.90
8H	4H	19.88	20.69	20.34	21.13	21.60	20.07	20.88	20.53	21.32	21.79
	6H	20.21	20.88	20.70	21.37	21.84	20.36	21.03	20.85	21.52	21.99
	8H	20.27	20.87	20.78	21.38	21.87	20.43	21.03	20.95	21.54	22.03
	12H	20.30	20.83	20.81	21.32	21.89	20.50	21.03	21.01	21.52	22.09
12H	4H	19.87	20.60	20.35	21.07	21.55	20.06	20.79	20.54	21.26	21.73
	6H	20.20	20.80	20.71	21.31	21.80	20.35	20.95	20.86	21.46	21.95
	8H	20.30	20.83	20.81	21.32	21.88	20.46	20.99	20.97	21.48	22.05