

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: P1498493

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498493
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-40-90-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

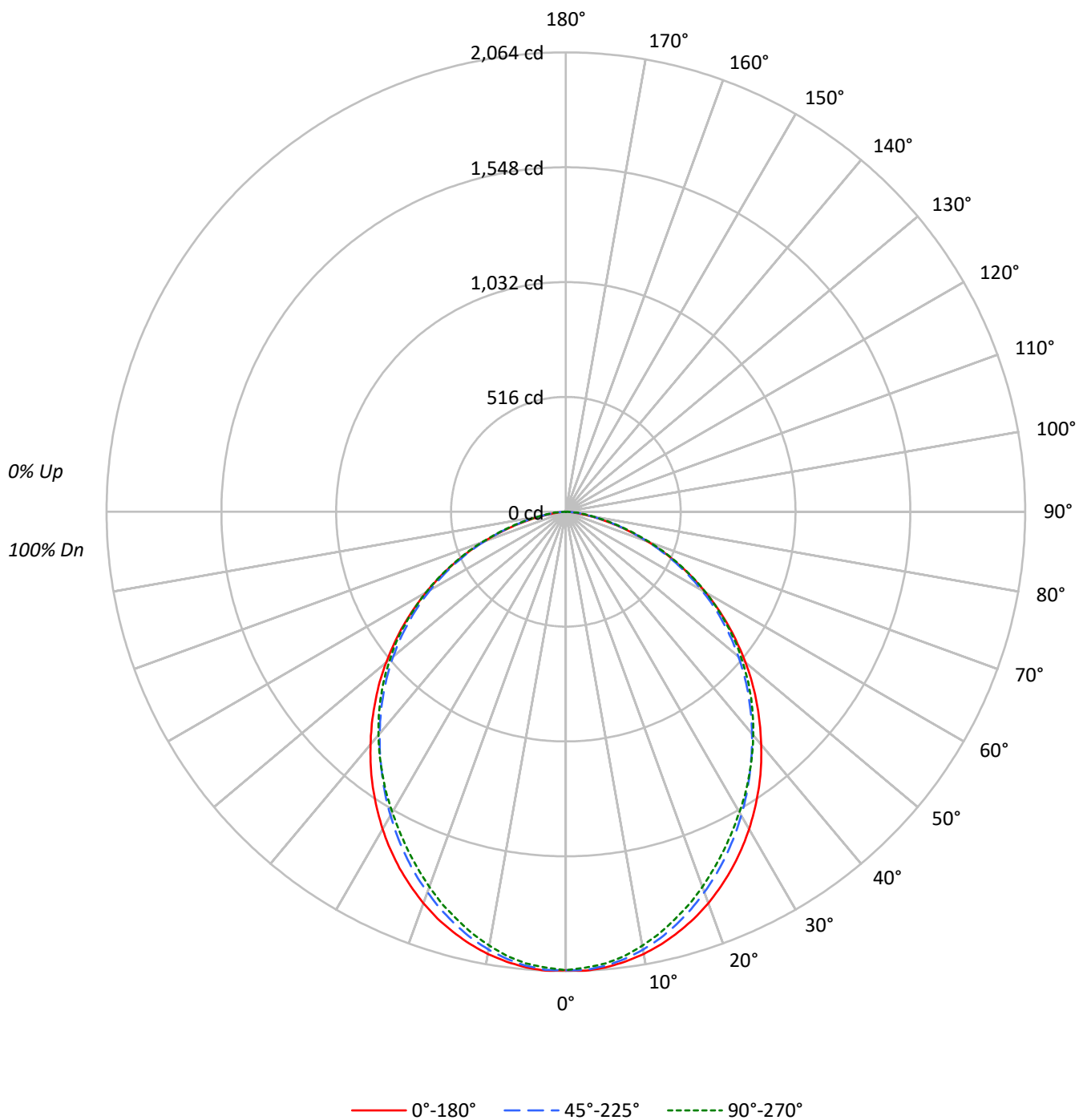
Lumens per Lamp: N/A
Luminaire Lumens: 4978.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	80	98	90	85	79	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5543	5543	5543
5°	5551	5531	5503
10°	5513	5460	5409
15°	5446	5348	5279
20°	5359	5210	5136
25°	5248	5059	4983
30°	5116	4897	4845
35°	4968	4731	4723
40°	4797	4572	4601
45°	4614	4412	4474
50°	4414	4240	4320
55°	4183	4039	4138
60°	3905	3794	3914
65°	3556	3476	3592
70°	3077	3066	3159
75°	2459	2538	2591
80°	1677	1844	1943
85°	877	1300	1701

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4614 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	3.9
10°-20°	540.7	10.9
20°-30°	788.1	15.8
30°-40°	911.2	18.3
40°-50°	906.8	18.2
50°-60°	779.4	15.7
60°-70°	546.6	11.0
70°-80°	259.6	5.2
80°-90°	52.0	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°	1522.4	30.6
0°-40°	2433.6	48.9
0°-60°	4119.9	82.8
0°-90°	4978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2055	2048	2048	2034	2037	195
15°	1955	1940	1920	1894	1895	551
25°	1767	1743	1704	1678	1678	814
35°	1512	1480	1440	1431	1438	945
45°	1212	1182	1159	1167	1176	935
55°	892	867	861	875	882	796
65°	558	544	546	558	564	552
75°	236	231	244	248	249	254
85°	28	33	42	51	55	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2060.0	2060.0	2060.0	2060.0	2060.0
2.5°	2063.9	2058.4	2060.0	2049.5	2049.9
5°	2055.1	2048.5	2047.7	2034.2	2037.3
7.5°	2039.3	2031.2	2026.6	2010.8	2013.4
10°	2017.6	2007.1	1998.0	1978.3	1979.4
12.5°	1989.6	1977.1	1962.5	1939.4	1941.0
15°	1955.0	1940.4	1919.5	1894.3	1894.8
17.5°	1916.6	1900.1	1871.8	1844.9	1847.5
20°	1871.4	1852.7	1819.3	1791.4	1793.6
22.5°	1821.3	1799.6	1764.3	1736.1	1736.5
25°	1767.4	1743.1	1704.0	1677.6	1678.2
27.5°	1709.2	1682.0	1641.3	1616.8	1618.9
30°	1646.6	1617.6	1576.0	1555.7	1559.1
32.5°	1580.6	1550.5	1509.4	1494.8	1500.7
35°	1512.2	1480.0	1440.0	1431.1	1437.6
37.5°	1440.8	1409.0	1371.3	1368.0	1374.8
40°	1365.7	1334.9	1301.6	1302.2	1309.8
42.5°	1289.8	1259.8	1231.2	1235.8	1244.0
45°	1212.4	1182.4	1159.4	1166.9	1175.7
47.5°	1135.0	1105.2	1087.3	1097.3	1105.2
50°	1054.3	1026.7	1012.8	1024.7	1031.8
52.5°	972.0	946.3	937.6	950.9	960.9
55°	891.5	866.8	861.0	874.9	882.0
57.5°	808.4	787.5	784.2	797.3	804.9
60°	725.5	706.0	704.9	719.0	727.3
62.5°	641.8	624.1	625.9	639.5	646.1
65°	558.5	543.5	545.9	557.5	564.2
67.5°	475.9	462.4	467.8	480.8	484.2
70°	391.1	380.7	389.7	399.6	401.5
72.5°	312.6	303.5	314.6	321.9	322.2
75°	236.5	230.9	244.1	247.9	249.2
77.5°	167.4	166.7	176.9	180.7	182.5
80°	108.2	111.8	119.0	124.7	125.4
82.5°	61.3	65.5	73.0	83.4	87.6
85°	28.4	32.8	42.1	51.1	55.1
87.5°	9.6	12.9	17.8	19.4	18.5
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	16.88	18.46	17.24	18.78	19.09	16.95	18.53	17.31	18.84	19.16
	3H	18.35	19.78	18.73	20.11	20.47	18.48	19.90	18.85	20.23	20.59
	4H	18.78	20.12	19.18	20.47	20.85	18.94	20.28	19.34	20.63	21.01
	6H	19.00	20.24	19.41	20.60	20.99	19.20	20.44	19.61	20.80	21.19
	8H	19.03	20.21	19.45	20.60	21.00	19.27	20.45	19.69	20.84	21.24
	12H	19.03	20.16	19.46	20.54	20.97	19.31	20.44	19.74	20.82	21.25
4H	2H	17.42	18.76	17.82	19.11	19.48	17.47	18.81	17.87	19.16	19.54
	3H	19.07	20.19	19.48	20.58	20.99	19.20	20.31	19.61	20.71	21.11
	4H	19.59	20.59	20.02	21.01	21.44	19.76	20.76	20.19	21.18	21.61
	6H	19.89	20.76	20.34	21.20	21.66	20.11	20.98	20.56	21.42	21.88
	8H	19.93	20.75	20.39	21.19	21.66	20.20	21.02	20.66	21.46	21.93
	12H	19.95	20.68	20.43	21.16	21.63	20.28	21.01	20.76	21.48	21.95
8H	4H	19.79	20.60	20.25	21.05	21.51	19.94	20.76	20.40	21.20	21.67
	6H	20.14	20.82	20.64	21.31	21.78	20.36	21.03	20.86	21.52	22.00
	8H	20.22	20.82	20.73	21.33	21.82	20.50	21.10	21.01	21.61	22.10
	12H	20.26	20.79	20.77	21.29	21.85	20.62	21.15	21.13	21.64	22.21
12H	4H	19.79	20.52	20.28	21.00	21.47	19.94	20.67	20.42	21.15	21.62
	6H	20.15	20.76	20.66	21.27	21.75	20.36	20.97	20.87	21.47	21.96
	8H	20.27	20.80	20.77	21.29	21.85	20.54	21.07	21.05	21.56	22.13