

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: P1498310

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498310
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-STD-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

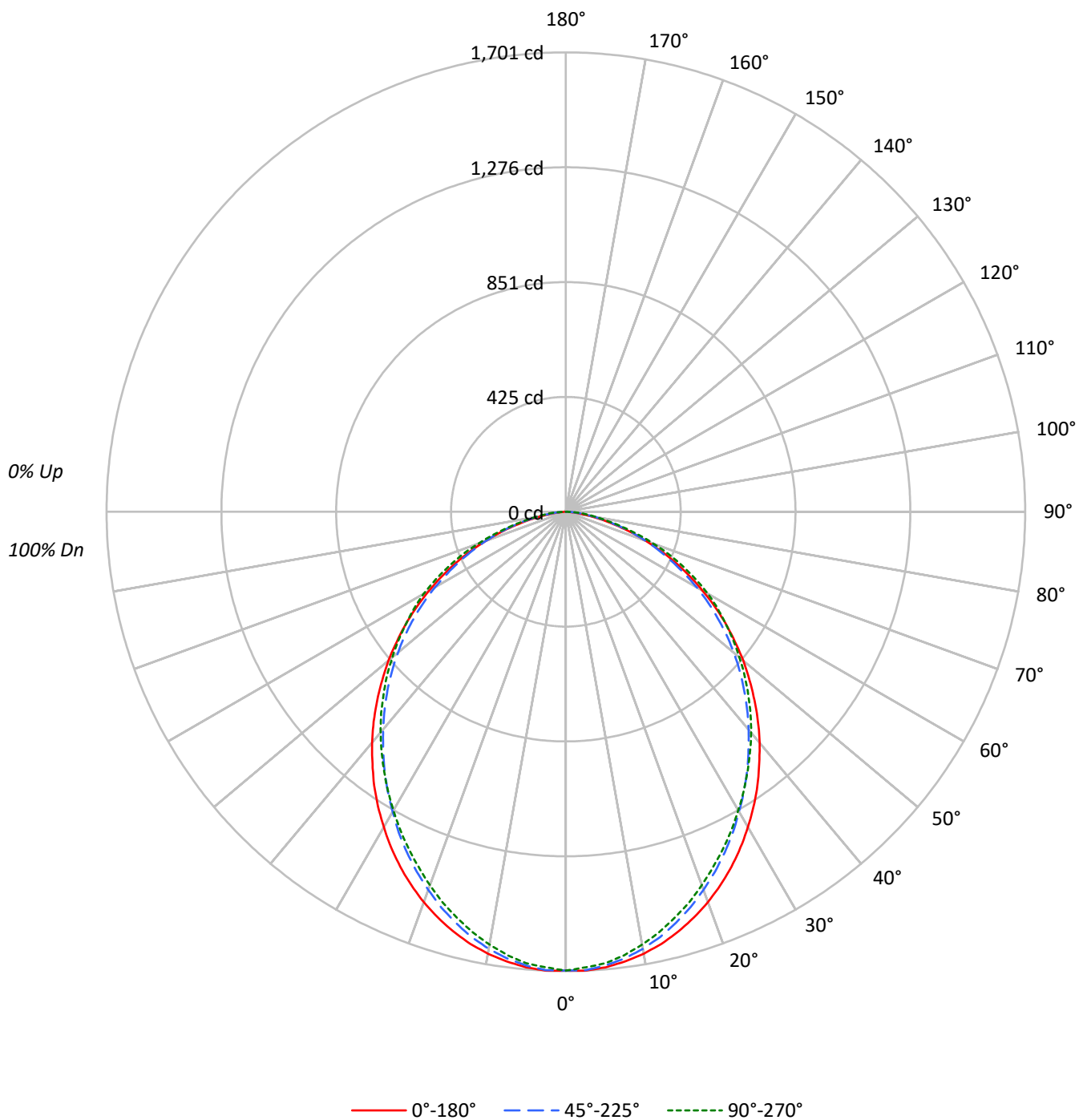
Lumens per Lamp: N/A
Luminaire Lumens: 4063.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4572	4572	4572
5°	4573	4556	4533
10°	4540	4490	4447
15°	4483	4389	4336
20°	4405	4266	4214
25°	4307	4133	4089
30°	4190	3985	3968
35°	4065	3845	3855
40°	3921	3699	3749
45°	3760	3554	3632
50°	3589	3399	3512
55°	3391	3219	3384
60°	3147	3012	3272
65°	2865	2746	3045
70°	2485	2471	2719
75°	1985	2105	2241
80°	1375	1632	1785
85°	769	1250	1627

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.5	3.9
10°-20°	444.4	10.9
20°-30°	645.4	15.9
30°-40°	742.6	18.3
40°-50°	734.8	18.1
50°-60°	629.1	15.5
60°-70°	443.9	10.9
70°-80°	216.2	5.3
80°-90°	47.3	1.2
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°	1249.3	30.7
0°-40°	1991.9	49.0
0°-60°	3355.7	82.6
0°-90°	4063.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1699	1699	1699	1699	1699	
5°	1693	1692	1686	1674	1678	161
15°	1609	1600	1576	1554	1556	453
25°	1451	1429	1392	1374	1377	668
35°	1237	1208	1170	1166	1173	773
45°	988	961	934	944	954	762
55°	723	698	686	706	721	645
65°	450	430	431	464	478	445
75°	191	182	202	215	216	206
85°	25	30	40	49	53	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1698.9	1698.9	1698.9	1698.9	1698.9
2.5°	1700.8	1702.2	1698.9	1686.1	1688.3
5°	1693.0	1691.6	1686.5	1674.4	1678.2
7.5°	1679.5	1677.2	1668.0	1653.7	1656.1
10°	1661.6	1656.9	1643.2	1625.3	1627.4
12.5°	1638.3	1632.0	1612.7	1592.4	1594.6
15°	1609.3	1600.2	1575.5	1554.1	1556.3
17.5°	1575.9	1565.5	1535.6	1512.3	1517.1
20°	1538.2	1524.0	1489.6	1467.5	1471.6
22.5°	1496.4	1478.8	1442.7	1421.2	1424.3
25°	1450.6	1429.2	1392.0	1373.6	1377.3
27.5°	1401.1	1377.6	1339.4	1322.5	1328.1
30°	1348.5	1323.0	1282.5	1270.6	1276.9
32.5°	1294.3	1267.2	1227.3	1219.3	1225.7
35°	1237.4	1207.8	1170.5	1165.5	1173.4
37.5°	1176.4	1148.0	1111.2	1113.3	1120.6
40°	1116.2	1086.8	1052.9	1058.3	1067.3
42.5°	1053.4	1025.0	994.0	1001.9	1012.4
45°	988.1	960.9	933.8	944.5	954.5
47.5°	922.4	895.6	873.3	886.1	898.0
50°	857.4	831.5	812.0	827.5	838.8
52.5°	789.0	764.4	750.1	766.6	781.1
55°	722.8	697.7	686.2	705.9	721.3
57.5°	654.3	633.6	623.6	647.0	666.3
60°	584.7	564.5	559.7	589.6	607.9
62.5°	516.8	496.9	494.5	529.7	543.0
65°	449.9	430.3	431.2	463.9	478.2
67.5°	383.5	365.6	373.3	404.8	414.5
70°	315.9	299.9	314.0	340.7	345.6
72.5°	252.5	239.0	258.3	277.2	278.5
75°	190.9	182.5	202.5	215.2	215.5
77.5°	136.6	132.3	150.9	159.6	160.3
80°	88.7	90.6	105.3	112.2	115.2
82.5°	51.7	56.3	67.8	79.2	82.2
85°	24.9	30.4	40.5	49.1	52.7
87.5°	8.6	12.3	16.9	18.8	18.3
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	16.08	17.66	16.45	17.98	18.29	16.23	17.82	16.60	18.13	18.44
	3H	17.53	18.96	17.91	19.28	19.64	17.88	19.31	18.26	19.63	20.00
	4H	17.96	19.30	18.36	19.65	20.02	18.39	19.73	18.79	20.08	20.45
	6H	18.18	19.42	18.59	19.78	20.17	18.69	19.93	19.10	20.29	20.68
	8H	18.22	19.40	18.64	19.78	20.18	18.78	19.96	19.20	20.35	20.75
	12H	18.22	19.35	18.65	19.73	20.16	18.84	19.97	19.27	20.35	20.78
4H	2H	16.59	17.93	16.99	18.28	18.66	16.72	18.06	17.12	18.41	18.78
	3H	18.23	19.35	18.64	19.74	20.14	18.57	19.69	18.98	20.09	20.49
	4H	18.74	19.75	19.18	20.16	20.60	19.19	20.20	19.63	20.61	21.05
	6H	19.05	19.92	19.50	20.36	20.82	19.60	20.47	20.05	20.91	21.37
	8H	19.10	19.92	19.56	20.36	20.83	19.72	20.54	20.18	20.98	21.45
	12H	19.12	19.86	19.61	20.33	20.80	19.82	20.55	20.30	21.03	21.50
8H	4H	18.97	19.79	19.43	20.23	20.70	19.38	20.19	19.84	20.64	21.10
	6H	19.34	20.01	19.83	20.50	20.98	19.86	20.54	20.36	21.03	21.50
	8H	19.43	20.03	19.94	20.54	21.03	20.04	20.65	20.55	21.15	21.64
	12H	19.48	20.01	19.99	20.51	21.07	20.20	20.73	20.71	21.23	21.79
12H	4H	18.98	19.71	19.46	20.19	20.66	19.38	20.11	19.86	20.58	21.05
	6H	19.36	19.97	19.87	20.47	20.96	19.87	20.47	20.38	20.98	21.47
	8H	19.49	20.02	20.00	20.52	21.08	20.09	20.62	20.60	21.12	21.68

END OF REPORT