

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: P1498259

Luminaire Tested: MAE-G-2-120-1STD-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498259
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-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

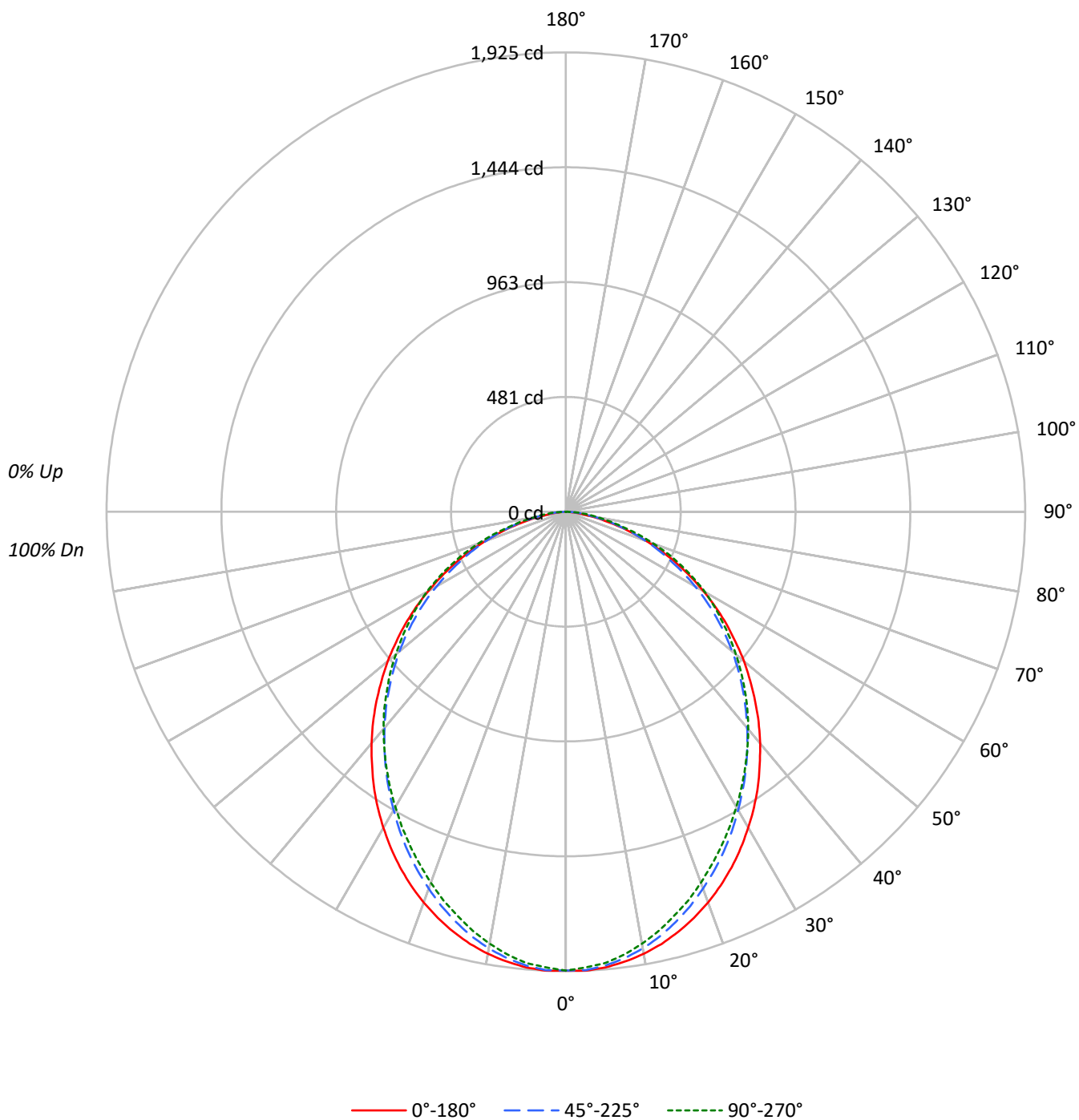
Lumens per Lamp: N/A
Luminaire Lumens: 4578.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 62.6
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5174	5174	5174
5°	5176	5155	5127
10°	5140	5077	5022
15°	5076	4958	4885
20°	4989	4812	4737
25°	4880	4656	4586
30°	4750	4484	4439
35°	4611	4321	4304
40°	4449	4152	4177
45°	4270	3986	4038
50°	4079	3809	3894
55°	3856	3606	3748
60°	3583	3373	3626
65°	3266	3080	3403
70°	2837	2788	3082
75°	2271	2407	2607
80°	1578	1909	2140
85°	883	1488	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4270 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.4	3.9
10°-20°	501.9	11.0
20°-30°	727.3	15.9
30°-40°	835.2	18.2
40°-50°	825.0	18.0
50°-60°	705.3	15.4
60°-70°	499.4	10.9
70°-80°	247.6	5.4
80°-90°	55.9	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°	1409.6	30.8
0°-40°	2244.8	49.0
0°-60°	3775.2	82.5
0°-90°	4578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4578.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1923	1923	1923	1923	1923	
5°	1916	1915	1908	1894	1898	182
15°	1822	1811	1780	1752	1753	513
25°	1644	1617	1568	1542	1544	757
35°	1404	1366	1315	1304	1310	877
45°	1122	1086	1047	1053	1061	865
55°	822	789	769	784	799	734
65°	513	487	484	519	534	507
75°	218	207	232	249	251	236
85°	29	35	48	59	64	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.7	1922.7	1922.7	1922.7	1922.7
2.5°	1924.9	1926.6	1922.7	1907.7	1910.7
5°	1916.2	1914.7	1908.5	1893.7	1898.0
7.5°	1901.1	1898.2	1886.9	1869.1	1871.9
10°	1881.0	1875.2	1858.1	1835.7	1837.8
12.5°	1854.8	1846.7	1822.6	1796.7	1798.7
15°	1822.1	1810.7	1779.6	1751.6	1753.3
17.5°	1784.7	1771.2	1733.1	1702.7	1707.1
20°	1742.3	1724.2	1680.2	1650.8	1654.1
22.5°	1695.3	1672.9	1626.3	1597.2	1599.1
25°	1643.7	1616.7	1568.1	1542.0	1544.4
27.5°	1588.1	1558.3	1507.7	1483.2	1487.6
30°	1528.8	1496.4	1443.1	1423.8	1428.7
32.5°	1467.7	1433.1	1380.2	1365.0	1370.0
35°	1403.5	1365.8	1315.4	1303.6	1310.1
37.5°	1334.8	1298.3	1248.2	1244.0	1249.7
40°	1266.6	1228.9	1182.0	1181.5	1189.0
42.5°	1195.7	1158.9	1115.4	1117.6	1126.6
45°	1122.0	1086.4	1047.3	1052.7	1061.1
47.5°	1047.8	1012.8	979.2	986.9	997.3
50°	974.3	940.2	909.9	920.9	930.2
52.5°	896.7	864.3	840.3	852.4	865.5
55°	821.9	789.1	768.6	784.4	798.9
57.5°	744.4	716.5	698.4	718.9	737.7
60°	665.8	638.6	626.7	655.2	673.7
62.5°	588.7	562.2	554.1	589.6	604.1
65°	512.9	487.0	483.7	518.9	534.4
67.5°	437.3	413.9	419.4	454.8	465.7
70°	360.6	339.6	354.3	385.2	391.7
72.5°	288.4	270.9	292.9	316.4	319.2
75°	218.4	207.2	231.5	248.7	250.7
77.5°	156.5	150.7	174.2	187.2	189.7
80°	101.8	103.9	123.2	133.9	138.1
82.5°	59.4	65.1	80.4	94.9	99.0
85°	28.6	35.4	48.2	59.0	63.7
87.5°	9.9	14.4	20.3	22.5	21.9
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	16.53	18.11	16.89	18.42	18.74	16.55	18.13	16.91	18.44	18.76
	3H	17.99	19.41	18.36	19.74	20.10	18.24	19.66	18.61	19.99	20.35
	4H	18.42	19.76	18.82	20.11	20.49	18.78	20.12	19.18	20.47	20.84
	6H	18.65	19.89	19.06	20.25	20.64	19.12	20.36	19.53	20.72	21.11
	8H	18.68	19.87	19.11	20.25	20.65	19.22	20.41	19.65	20.79	21.19
	12H	18.69	19.82	19.12	20.20	20.63	19.30	20.43	19.73	20.81	21.24
4H	2H	17.03	18.37	17.43	18.72	19.09	17.04	18.38	17.44	18.73	19.11
	3H	18.68	19.79	19.09	20.19	20.59	18.94	20.06	19.35	20.46	20.86
	4H	19.20	20.20	19.63	20.62	21.05	19.60	20.61	20.03	21.02	21.46
	6H	19.51	20.38	19.96	20.82	21.28	20.05	20.93	20.51	21.37	21.83
	8H	19.56	20.38	20.03	20.83	21.29	20.20	21.02	20.66	21.46	21.92
	12H	19.59	20.32	20.07	20.80	21.27	20.31	21.04	20.79	21.52	21.99
8H	4H	19.43	20.25	19.89	20.69	21.16	19.79	20.61	20.26	21.06	21.52
	6H	19.81	20.48	20.30	20.97	21.45	20.33	21.01	20.83	21.50	21.98
	8H	19.90	20.51	20.41	21.01	21.50	20.54	21.14	21.05	21.65	22.14
	12H	19.96	20.49	20.46	20.98	21.55	20.72	21.25	21.23	21.74	22.31
12H	4H	19.44	20.18	19.93	20.65	21.12	19.79	20.53	20.28	21.00	21.47
	6H	19.83	20.44	20.35	20.95	21.44	20.34	20.95	20.85	21.46	21.94
	8H	19.97	20.50	20.48	21.00	21.56	20.59	21.13	21.10	21.62	22.18