

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: P1498070

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498070
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-2-120-1HI-HI-50-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

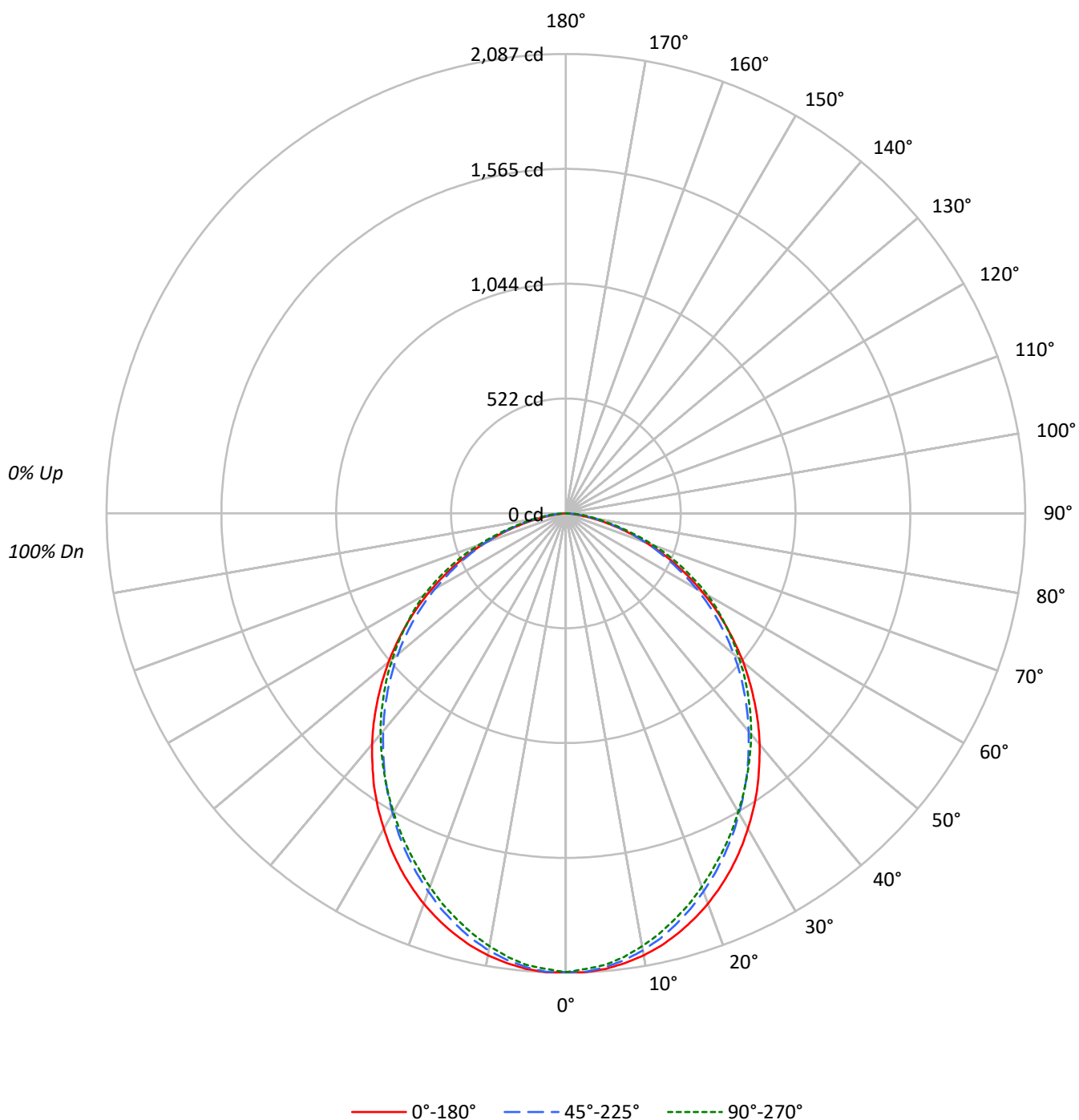
Lumens per Lamp: N/A
Luminaire Lumens: 4985.0 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		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	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	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°	5609	5609	5609
5°	5611	5589	5562
10°	5571	5509	5456
15°	5500	5385	5319
20°	5404	5234	5170
25°	5285	5071	5017
30°	5141	4890	4868
35°	4987	4718	4730
40°	4810	4538	4600
45°	4614	4360	4457
50°	4404	4171	4308
55°	4160	3949	4152
60°	3862	3696	4014
65°	3514	3369	3736
70°	3050	3031	3337
75°	2435	2584	2749
80°	1684	2002	2190
85°	942	1528	1995

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°	195.6	3.9
10°-20°	545.3	10.9
20°-30°	791.9	15.9
30°-40°	911.1	18.3
40°-50°	901.5	18.1
50°-60°	771.8	15.5
60°-70°	544.6	10.9
70°-80°	265.2	5.3
80°-90°	58.0	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°	1532.8	30.7
0°-40°	2443.9	49.0
0°-60°	4117.2	82.6
0°-90°	4985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2084	2084	2084	2084	2084	
5°	2077	2075	2069	2054	2059	197
15°	1974	1963	1933	1907	1909	556
25°	1780	1754	1708	1685	1690	819
35°	1518	1482	1436	1430	1440	948
45°	1212	1179	1146	1159	1171	935
55°	887	856	842	866	885	792
65°	552	528	529	569	587	546
75°	234	224	248	264	264	253
85°	30	37	50	60	65	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2084.4	2084.4	2084.4	2084.4	2084.4
2.5°	2086.8	2088.5	2084.4	2068.7	2071.4
5°	2077.2	2075.4	2069.2	2054.4	2059.0
7.5°	2060.6	2057.7	2046.4	2028.9	2031.9
10°	2038.7	2032.9	2016.0	1994.1	1996.7
12.5°	2010.2	2002.3	1978.7	1953.7	1956.4
15°	1974.4	1963.3	1933.1	1906.7	1909.4
17.5°	1933.6	1920.7	1884.1	1855.6	1861.3
20°	1887.2	1869.9	1827.7	1800.6	1805.5
22.5°	1836.0	1814.3	1770.1	1743.8	1747.6
25°	1779.8	1753.5	1707.9	1685.3	1689.8
27.5°	1719.1	1690.1	1643.3	1622.5	1629.5
30°	1654.4	1623.2	1573.6	1559.0	1566.6
32.5°	1587.9	1554.8	1505.8	1496.0	1503.7
35°	1518.2	1481.9	1436.2	1430.0	1439.7
37.5°	1443.4	1408.6	1363.4	1365.8	1374.9
40°	1369.4	1333.3	1291.8	1298.5	1309.5
42.5°	1292.5	1257.6	1219.6	1229.3	1242.2
45°	1212.3	1179.0	1145.7	1158.8	1171.1
47.5°	1131.8	1098.8	1071.6	1087.2	1101.7
50°	1051.9	1020.2	996.2	1015.3	1029.0
52.5°	968.1	937.8	920.3	940.6	958.3
55°	886.8	856.1	841.8	866.0	884.9
57.5°	802.7	777.5	765.1	793.8	817.5
60°	717.5	692.5	686.7	723.4	745.9
62.5°	634.1	609.6	606.7	649.8	666.2
65°	551.9	527.9	529.1	569.1	586.7
67.5°	470.6	448.5	458.0	496.6	508.5
70°	387.6	368.0	385.2	418.0	424.1
72.5°	309.8	293.3	316.9	340.1	341.7
75°	234.2	224.0	248.5	264.0	264.4
77.5°	167.7	162.3	185.1	195.8	196.6
80°	108.7	111.1	129.2	137.6	141.3
82.5°	63.4	69.1	83.2	97.2	100.9
85°	30.5	37.3	49.5	60.2	64.6
87.5°	10.6	15.1	20.7	22.9	22.3
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	16.79	18.37	17.16	18.69	19.00	16.94	18.53	17.31	18.84	19.15
	3H	18.24	19.67	18.62	19.99	20.35	18.59	20.02	18.97	20.34	20.71
	4H	18.67	20.01	19.07	20.36	20.73	19.10	20.44	19.50	20.79	21.16
	6H	18.89	20.13	19.30	20.49	20.89	19.40	20.64	19.81	21.00	21.39
	8H	18.93	20.11	19.35	20.50	20.90	19.49	20.67	19.91	21.06	21.46
	12H	18.93	20.06	19.36	20.44	20.87	19.55	20.68	19.98	21.06	21.49
4H	2H	17.30	18.64	17.70	18.99	19.37	17.43	18.77	17.83	19.12	19.49
	3H	18.94	20.06	19.35	20.45	20.86	19.28	20.40	19.69	20.80	21.20
	4H	19.46	20.46	19.89	20.87	21.31	19.90	20.91	20.34	21.32	21.76
	6H	19.76	20.63	20.21	21.07	21.53	20.31	21.18	20.76	21.62	22.08
	8H	19.81	20.63	20.27	21.07	21.54	20.43	21.25	20.89	21.69	22.16
	12H	19.84	20.57	20.32	21.04	21.51	20.53	21.26	21.01	21.74	22.21
8H	4H	19.68	20.50	20.14	20.94	21.41	20.09	20.90	20.55	21.35	21.81
	6H	20.05	20.72	20.54	21.21	21.69	20.57	21.25	21.07	21.74	22.21
	8H	20.14	20.74	20.65	21.25	21.74	20.75	21.36	21.26	21.86	22.35
	12H	20.19	20.73	20.70	21.22	21.78	20.91	21.45	21.42	21.94	22.50
12H	4H	19.69	20.42	20.17	20.90	21.37	20.09	20.82	20.57	21.29	21.76
	6H	20.07	20.68	20.58	21.19	21.67	20.58	21.18	21.09	21.69	22.18
	8H	20.20	20.73	20.71	21.23	21.79	20.80	21.34	21.31	21.83	22.39