

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: P1498373

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498373
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-2-120-2HI-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

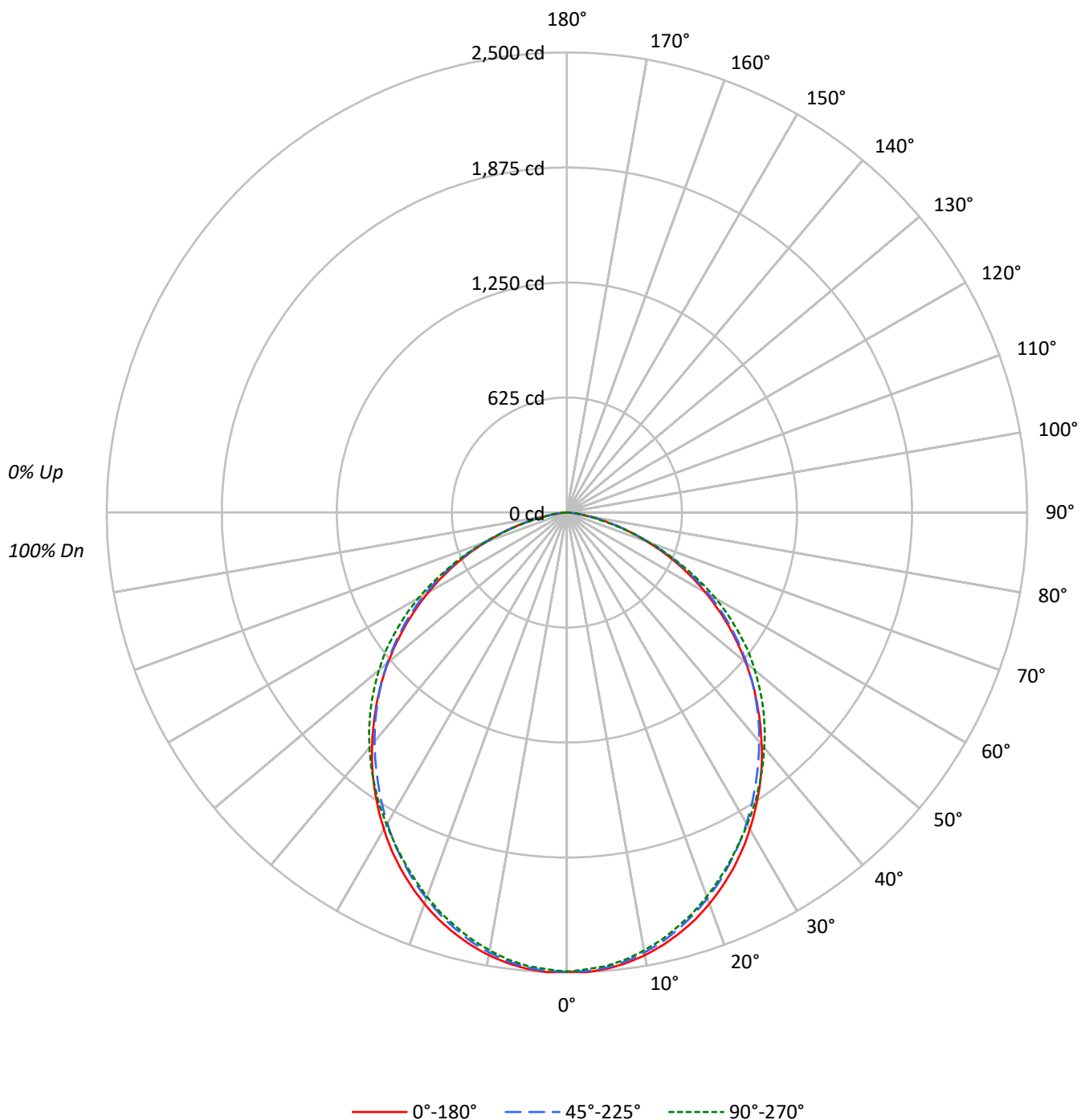
Lumens per Lamp: N/A
Luminaire Lumens: 6132.0 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	93	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	76	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	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6714	6714	6714
5°	6724	6705	6681
10°	6676	6636	6601
15°	6592	6527	6491
20°	6482	6391	6362
25°	6343	6235	6214
30°	6178	6063	6084
35°	5993	5880	5975
40°	5781	5709	5860
45°	5554	5532	5739
50°	5307	5337	5575
55°	5023	5100	5351
60°	4682	4800	5022
65°	4248	4383	4479
70°	3658	3777	3749
75°	2903	2973	2803
80°	1946	1931	1785
85°	976	1179	1439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5739 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	3.8
10°-20°	660.0	10.8
20°-30°	969.2	15.8
30°-40°	1128.8	18.4
40°-50°	1131.4	18.5
50°-60°	977.4	15.9
60°-70°	677.6	11.1
70°-80°	301.5	4.9
80°-90°	51.1	0.8
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°	1864.1	30.4
0°-40°	2992.9	48.8
0°-60°	5101.7	83.2
0°-90°	6132.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6132.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2495	2495	2495	2495	2495	
5°	2489	2479	2482	2471	2473	236
15°	2366	2351	2343	2327	2330	667
25°	2136	2119	2100	2087	2093	983
35°	1824	1804	1790	1802	1819	1140
45°	1460	1444	1454	1487	1508	1126
55°	1071	1061	1087	1125	1141	956
65°	667	668	688	697	704	660
75°	279	281	286	274	270	301
85°	32	34	38	44	47	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2494.9	2494.9	2494.9	2494.9	2494.9
2.5°	2500.4	2490.2	2494.9	2486.4	2484.1
5°	2489.2	2478.8	2482.2	2470.7	2473.4
7.5°	2470.0	2458.7	2459.6	2447.4	2450.4
10°	2443.1	2430.1	2428.5	2414.0	2415.9
12.5°	2408.8	2395.0	2390.3	2374.3	2377.8
15°	2366.1	2351.4	2342.8	2327.4	2329.9
17.5°	2319.3	2304.4	2290.4	2274.4	2280.0
20°	2263.4	2248.2	2231.7	2215.0	2221.6
22.5°	2201.9	2185.2	2168.9	2153.0	2158.2
25°	2136.4	2118.6	2099.8	2086.9	2092.9
27.5°	2065.0	2045.4	2027.7	2017.4	2025.8
30°	1988.3	1968.4	1951.2	1947.2	1958.1
32.5°	1907.5	1888.0	1872.3	1876.7	1891.8
35°	1824.4	1803.5	1789.9	1802.2	1818.7
37.5°	1737.9	1717.8	1708.4	1728.1	1745.5
40°	1645.8	1628.3	1625.2	1650.0	1668.3
42.5°	1553.7	1537.4	1540.5	1570.6	1590.4
45°	1459.5	1443.9	1453.7	1486.9	1508.1
47.5°	1366.6	1350.2	1365.7	1402.2	1421.0
50°	1267.7	1254.8	1274.8	1312.5	1331.8
52.5°	1169.2	1157.5	1181.8	1221.3	1243.1
55°	1070.7	1061.1	1087.0	1125.3	1140.6
57.5°	970.1	964.5	991.3	1024.2	1038.5
60°	869.9	865.3	891.8	920.6	933.2
62.5°	768.7	765.9	791.3	812.5	818.7
65°	667.2	667.7	688.3	697.4	703.5
67.5°	568.1	567.8	585.5	591.3	591.8
70°	464.9	467.8	480.1	479.7	476.5
72.5°	370.8	371.7	379.1	373.2	368.0
75°	279.2	281.2	285.9	274.1	269.6
77.5°	196.1	200.8	197.9	187.2	183.1
80°	125.6	130.5	124.6	118.5	115.2
82.5°	69.8	72.6	69.7	75.0	77.1
85°	31.6	33.9	38.2	44.3	46.6
87.5°	10.7	12.8	15.8	16.7	15.7
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	17.54	19.12	17.90	19.44	19.75	17.97	19.55	18.33	19.86	20.18
	3H	18.99	20.42	19.37	20.74	21.10	19.35	20.78	19.73	21.10	21.46
	4H	19.41	20.75	19.81	21.09	21.47	19.71	21.04	20.11	21.39	21.77
	6H	19.61	20.84	20.02	21.21	21.60	19.85	21.09	20.27	21.45	21.85
	8H	19.63	20.81	20.06	21.20	21.60	19.87	21.05	20.30	21.44	21.84
	12H	19.63	20.75	20.06	21.14	21.56	19.88	21.01	20.31	21.39	21.82
4H	2H	18.13	19.46	18.52	19.81	20.19	18.47	19.81	18.87	20.16	20.53
	3H	19.75	20.86	20.16	21.26	21.66	20.04	21.15	20.45	21.55	21.95
	4H	20.25	21.25	20.68	21.66	22.10	20.47	21.47	20.90	21.89	22.32
	6H	20.52	21.39	20.98	21.83	22.29	20.68	21.55	21.14	21.99	22.45
	8H	20.56	21.37	21.02	21.81	22.28	20.72	21.53	21.18	21.97	22.44
	12H	20.57	21.29	21.05	21.77	22.24	20.75	21.47	21.23	21.95	22.42
8H	4H	20.42	21.23	20.89	21.68	22.14	20.63	21.44	21.09	21.88	22.35
	6H	20.75	21.42	21.24	21.91	22.38	20.88	21.55	21.38	22.04	22.52
	8H	20.81	21.41	21.32	21.92	22.40	20.94	21.54	21.46	22.05	22.54
	12H	20.84	21.37	21.35	21.86	22.42	21.00	21.53	21.51	22.02	22.58
12H	4H	20.42	21.14	20.90	21.62	22.09	20.62	21.35	21.10	21.82	22.30
	6H	20.74	21.34	21.25	21.85	22.33	20.87	21.47	21.39	21.98	22.47
	8H	20.83	21.36	21.34	21.85	22.41	20.97	21.49	21.47	21.99	22.55