

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: P1498451

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498451
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-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

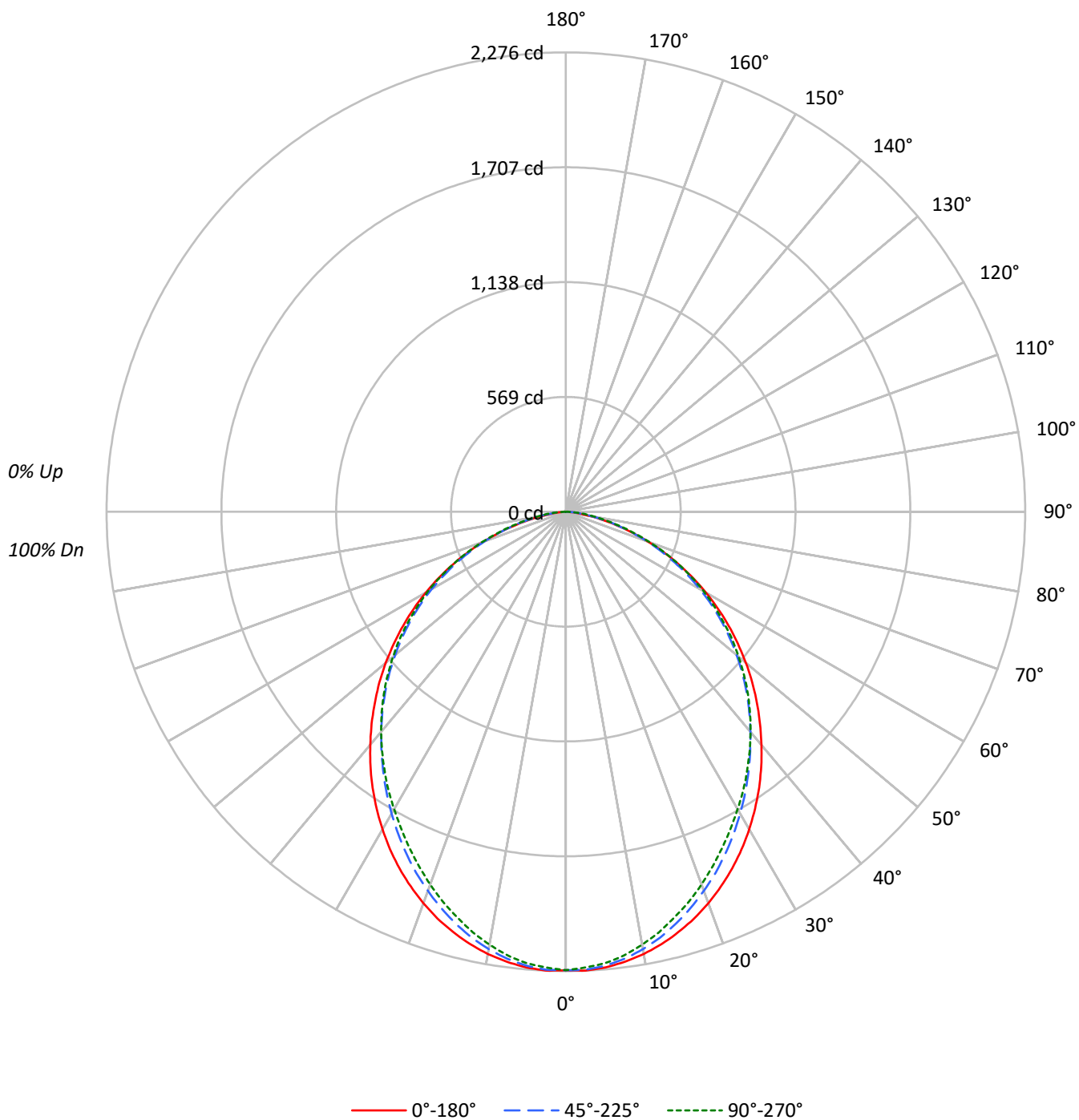
Lumens per Lamp: N/A
Luminaire Lumens: 5463.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	98	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	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	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°	6112	6112	6112
5°	6121	6098	6064
10°	6079	6014	5951
15°	6006	5884	5796
20°	5911	5724	5628
25°	5790	5552	5449
30°	5646	5366	5287
35°	5483	5178	5143
40°	5297	4998	5001
45°	5096	4818	4853
50°	4876	4625	4677
55°	4622	4402	4477
60°	4317	4131	4245
65°	3936	3790	3928
70°	3410	3364	3503
75°	2730	2824	2940
80°	1870	2111	2286
85°	985	1531	2029

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5096 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.3	3.9
10°-20°	594.9	10.9
20°-30°	865.3	15.8
30°-40°	998.4	18.3
40°-50°	991.5	18.2
50°-60°	851.0	15.6
60°-70°	598.8	11.0
70°-80°	289.4	5.3
80°-90°	60.3	1.1
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°	1673.6	30.6
0°-40°	2671.9	48.9
0°-60°	4514.5	82.6
0°-90°	5463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2271	2271	2271	2271	2271	
5°	2266	2259	2257	2241	2245	215
15°	2156	2139	2112	2080	2080	608
25°	1950	1920	1870	1836	1835	898
35°	1669	1629	1576	1561	1566	1043
45°	1339	1301	1266	1268	1275	1033
55°	985	953	938	948	954	880
65°	618	597	595	609	617	611
75°	263	254	272	280	283	282
85°	32	38	50	61	66	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2271.4	2271.4	2271.4	2271.4	2271.4
2.5°	2275.5	2270.4	2271.4	2258.8	2259.9
5°	2265.8	2259.2	2257.4	2241.1	2244.8
7.5°	2248.5	2239.9	2233.3	2214.1	2217.0
10°	2224.8	2213.2	2200.9	2176.8	2177.9
12.5°	2194.1	2179.9	2160.6	2132.0	2133.5
15°	2155.9	2139.2	2111.9	2080.4	2080.5
17.5°	2113.8	2094.3	2058.0	2024.1	2026.3
20°	2064.3	2041.7	1998.9	1963.8	1965.4
22.5°	2009.1	1982.9	1937.3	1901.6	1900.7
25°	1949.9	1920.2	1869.8	1835.9	1835.2
27.5°	1885.9	1852.6	1799.7	1767.8	1768.6
30°	1816.9	1781.3	1727.0	1699.5	1701.5
32.5°	1744.5	1707.0	1653.2	1631.5	1635.9
35°	1669.2	1629.1	1576.2	1560.6	1565.7
37.5°	1590.5	1550.8	1500.0	1490.6	1495.7
40°	1507.9	1469.0	1422.9	1417.6	1423.7
42.5°	1424.3	1386.2	1345.2	1344.1	1350.8
45°	1339.0	1300.7	1265.9	1268.1	1275.2
47.5°	1253.6	1215.7	1186.6	1191.5	1197.9
50°	1164.8	1129.1	1104.7	1111.9	1117.1
52.5°	1073.8	1040.5	1022.1	1031.0	1039.5
55°	985.2	952.9	938.2	948.1	954.3
57.5°	893.5	865.6	854.2	864.5	871.4
60°	802.2	775.9	767.6	780.4	788.7
62.5°	709.9	685.6	681.7	695.6	703.3
65°	618.1	597.0	595.2	609.2	616.9
67.5°	526.8	507.9	511.2	527.9	532.5
70°	433.4	418.1	427.6	441.7	445.2
72.5°	346.6	333.6	347.3	359.2	361.0
75°	262.6	254.2	271.6	279.8	282.8
77.5°	186.2	184.1	199.1	207.3	210.8
80°	120.7	124.4	136.2	145.6	147.5
82.5°	68.7	74.0	85.1	98.6	103.8
85°	31.9	37.6	49.6	60.8	65.7
87.5°	10.8	14.9	21.1	22.9	22.0
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	17.22	18.80	17.59	19.12	19.43	17.18	18.77	17.55	19.08	19.40
	3H	18.70	20.13	19.08	20.45	20.81	18.76	20.18	19.14	20.51	20.87
	4H	19.14	20.47	19.53	20.82	21.20	19.26	20.59	19.65	20.94	21.32
	6H	19.35	20.59	19.77	20.96	21.35	19.55	20.79	19.96	21.15	21.55
	8H	19.39	20.57	19.81	20.96	21.36	19.63	20.81	20.06	21.20	21.60
	12H	19.39	20.52	19.82	20.90	21.33	19.69	20.82	20.12	21.20	21.63
4H	2H	17.75	19.09	18.15	19.43	19.81	17.72	19.06	18.12	19.41	19.78
	3H	19.41	20.52	19.82	20.92	21.32	19.49	20.60	19.90	21.00	21.40
	4H	19.93	20.94	20.36	21.35	21.79	20.09	21.09	20.52	21.51	21.94
	6H	20.23	21.11	20.69	21.55	22.01	20.48	21.35	20.94	21.80	22.25
	8H	20.28	21.10	20.74	21.54	22.01	20.59	21.41	21.05	21.85	22.32
	12H	20.30	21.03	20.78	21.51	21.98	20.68	21.41	21.16	21.89	22.36
8H	4H	20.14	20.95	20.60	21.40	21.86	20.28	21.10	20.74	21.54	22.01
	6H	20.50	21.18	21.00	21.67	22.14	20.75	21.42	21.24	21.91	22.39
	8H	20.58	21.19	21.10	21.70	22.18	20.91	21.51	21.42	22.02	22.51
	12H	20.63	21.16	21.14	21.65	22.22	21.05	21.59	21.56	22.08	22.64
12H	4H	20.15	20.88	20.63	21.35	21.82	20.28	21.01	20.76	21.49	21.96
	6H	20.52	21.12	21.03	21.63	22.12	20.75	21.36	21.26	21.87	22.35
	8H	20.63	21.17	21.14	21.66	22.22	20.96	21.49	21.46	21.98	22.54