

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: P1498763

Luminaire Tested: MAE-G-2-120-3LO-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498763
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

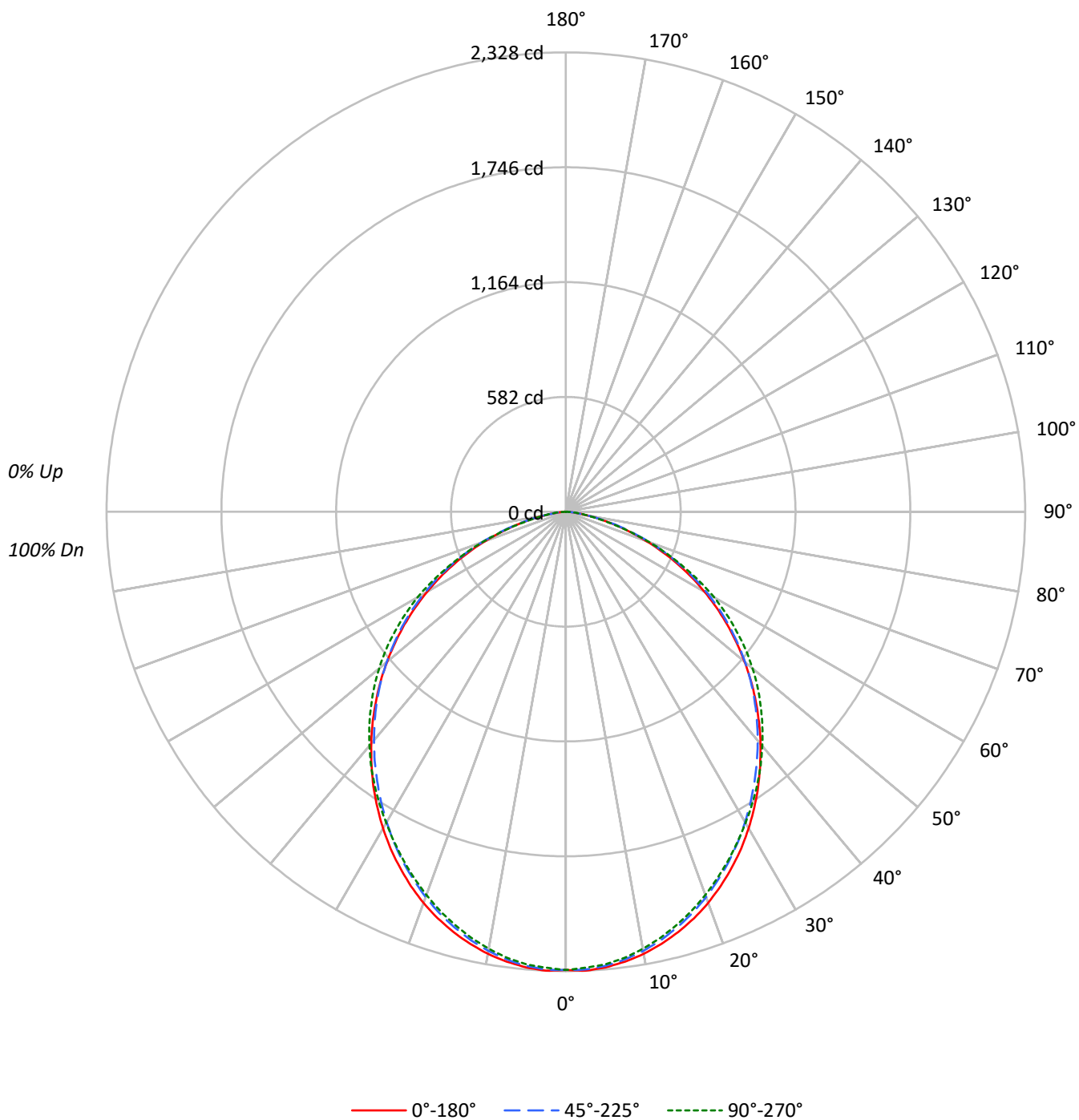
Lumens per Lamp: N/A
Luminaire Lumens: 5713.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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
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	92	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	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	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	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6249	6249	6249
5°	6260	6240	6219
10°	6216	6175	6144
15°	6141	6074	6041
20°	6040	5950	5918
25°	5908	5807	5783
30°	5757	5643	5659
35°	5585	5477	5553
40°	5391	5315	5441
45°	5181	5149	5317
50°	4951	4962	5172
55°	4691	4745	4959
60°	4370	4468	4676
65°	3969	4092	4183
70°	3419	3556	3530
75°	2717	2825	2641
80°	1829	1852	1723
85°	942	1164	1417

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.6	3.8
10°-20°	614.3	10.8
20°-30°	902.0	15.8
30°-40°	1050.1	18.4
40°-50°	1052.3	18.4
50°-60°	909.3	15.9
60°-70°	632.8	11.1
70°-80°	284.3	5.0
80°-90°	49.3	0.9
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°	1734.9	30.4
0°-40°	2784.9	48.7
0°-60°	4746.6	83.1
0°-90°	5713.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5713.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2322	2322	2322	2322	2322	
5°	2317	2308	2310	2299	2302	220
15°	2204	2190	2180	2165	2168	621
25°	1990	1972	1956	1940	1948	916
35°	1700	1679	1667	1674	1690	1062
45°	1361	1346	1353	1380	1397	1050
55°	1000	989	1011	1045	1057	893
65°	623	621	643	655	657	616
75°	261	263	272	262	254	281
85°	30	33	38	43	46	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2322.1	2322.1	2322.1	2322.1	2322.1
2.5°	2327.9	2318.3	2322.1	2313.7	2312.1
5°	2317.4	2307.6	2310.0	2299.2	2302.3
7.5°	2299.4	2288.9	2288.7	2276.8	2279.7
10°	2275.0	2262.6	2259.7	2246.3	2248.5
12.5°	2242.5	2229.7	2223.7	2208.3	2212.0
15°	2204.4	2190.2	2180.2	2165.0	2168.3
17.5°	2160.1	2144.6	2132.4	2114.7	2120.2
20°	2109.3	2092.6	2077.9	2059.3	2066.5
22.5°	2052.5	2034.8	2018.1	2001.3	2008.6
25°	1989.9	1971.9	1955.6	1940.2	1947.8
27.5°	1924.1	1904.1	1887.5	1876.5	1884.8
30°	1852.8	1832.2	1816.1	1809.1	1821.1
32.5°	1777.5	1757.0	1742.8	1742.8	1756.6
35°	1700.2	1678.7	1667.1	1674.2	1690.3
37.5°	1617.1	1599.0	1591.0	1605.1	1621.5
40°	1534.8	1515.8	1513.0	1531.8	1548.9
42.5°	1449.6	1432.8	1433.9	1458.1	1474.1
45°	1361.3	1345.8	1353.0	1379.7	1397.2
47.5°	1274.7	1258.7	1270.6	1299.9	1318.8
50°	1182.6	1169.6	1185.2	1218.1	1235.4
52.5°	1091.1	1078.6	1098.9	1133.6	1150.3
55°	999.9	988.6	1011.4	1045.1	1057.1
57.5°	905.7	899.1	922.6	952.2	964.8
60°	811.9	806.2	830.1	857.5	868.8
62.5°	717.9	714.5	737.3	759.5	763.3
65°	623.4	621.3	642.7	654.6	657.0
67.5°	527.8	528.4	547.9	554.1	553.8
70°	434.6	434.1	452.0	453.6	448.6
72.5°	344.0	346.2	357.8	355.1	347.0
75°	261.3	263.4	271.7	261.6	254.0
77.5°	184.4	186.2	190.0	178.9	174.2
80°	118.0	121.6	119.5	114.5	111.2
82.5°	65.9	69.7	67.9	73.1	75.5
85°	30.5	32.7	37.7	43.4	45.9
87.5°	10.3	12.4	15.5	16.6	15.4
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	17.30	18.88	17.66	19.20	19.51	17.71	19.29	18.07	19.60	19.92
	3H	18.75	20.17	19.12	20.50	20.86	19.12	20.54	19.49	20.87	21.23
	4H	19.16	20.50	19.56	20.85	21.23	19.48	20.82	19.88	21.17	21.55
	6H	19.36	20.60	19.78	20.97	21.36	19.64	20.87	20.05	21.24	21.63
	8H	19.39	20.57	19.81	20.96	21.36	19.66	20.84	20.09	21.23	21.63
	12H	19.39	20.51	19.82	20.90	21.33	19.67	20.80	20.10	21.18	21.61
4H	2H	17.88	19.22	18.28	19.57	19.95	18.21	19.55	18.61	19.90	20.28
	3H	19.51	20.62	19.92	21.02	21.42	19.81	20.92	20.22	21.32	21.72
	4H	20.01	21.01	20.44	21.42	21.86	20.26	21.26	20.69	21.68	22.11
	6H	20.28	21.15	20.74	21.60	22.05	20.48	21.35	20.94	21.80	22.25
	8H	20.32	21.14	20.79	21.58	22.05	20.53	21.34	20.99	21.78	22.25
	12H	20.33	21.06	20.82	21.54	22.01	20.56	21.28	21.04	21.76	22.23
8H	4H	20.19	21.00	20.65	21.45	21.91	20.42	21.23	20.88	21.68	22.14
	6H	20.52	21.19	21.01	21.68	22.15	20.69	21.36	21.19	21.85	22.33
	8H	20.58	21.18	21.09	21.69	22.18	20.76	21.36	21.27	21.87	22.36
	12H	20.61	21.14	21.12	21.64	22.20	20.82	21.35	21.33	21.84	22.40
12H	4H	20.19	20.91	20.67	21.39	21.86	20.42	21.14	20.90	21.62	22.09
	6H	20.51	21.11	21.02	21.62	22.11	20.68	21.28	21.20	21.79	22.28
	8H	20.61	21.14	21.12	21.63	22.19	20.79	21.31	21.29	21.81	22.37