

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: P1498745

Luminaire Tested: MAE-G-2-120-3LO-LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498745
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-30-90-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

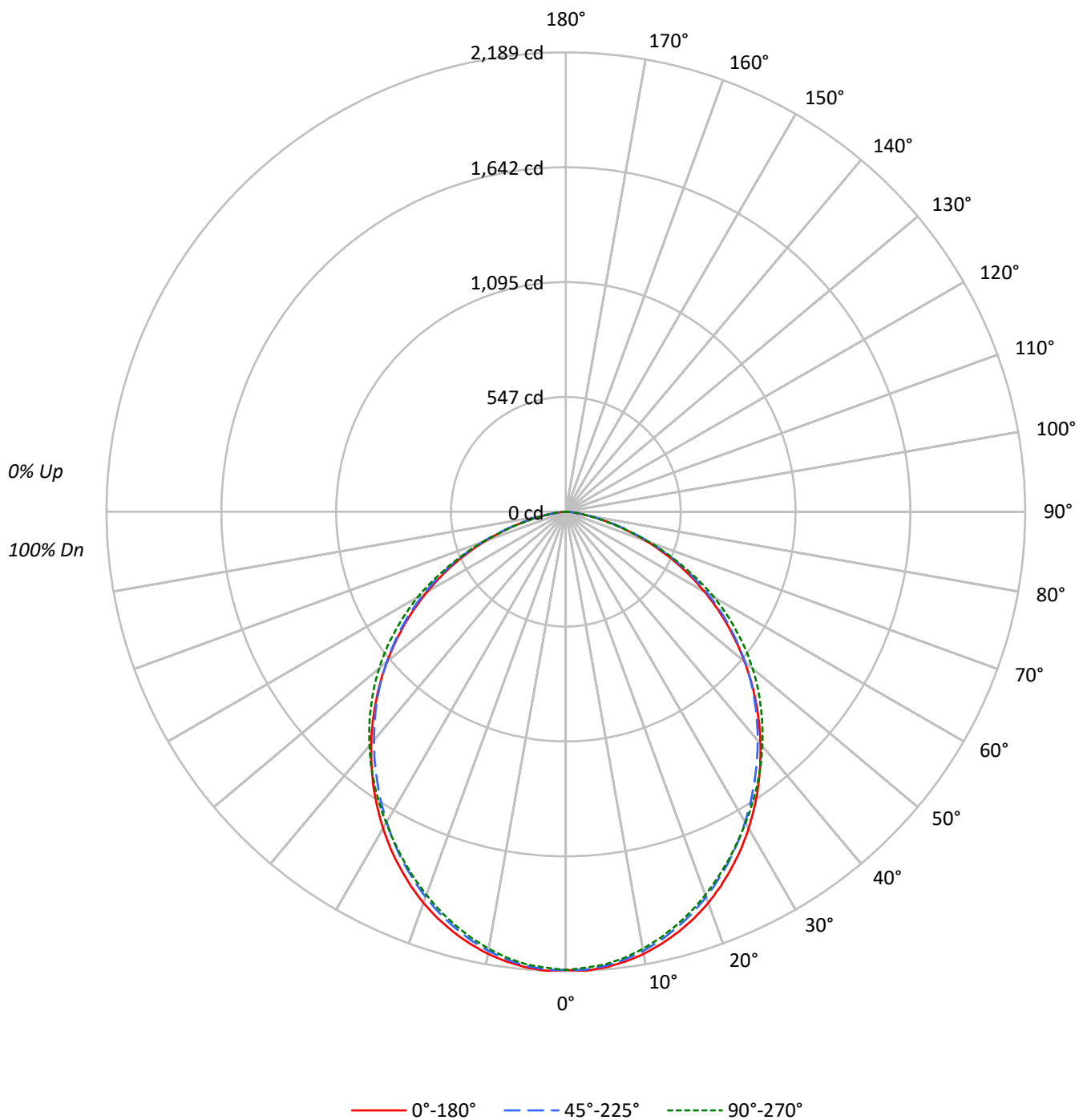
Lumens per Lamp: N/A
Luminaire Lumens: 5372.0 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5876	5876	5876
5°	5886	5867	5848
10°	5845	5806	5777
15°	5775	5711	5680
20°	5680	5596	5565
25°	5556	5460	5438
30°	5413	5306	5321
35°	5252	5150	5221
40°	5069	4997	5116
45°	4872	4842	5000
50°	4655	4666	4863
55°	4411	4462	4663
60°	4109	4201	4397
65°	3733	3848	3934
70°	3215	3344	3319
75°	2555	2656	2484
80°	1720	1742	1619
85°	883	1096	1331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5000 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.6	3.8
10°-20°	577.6	10.8
20°-30°	848.2	15.8
30°-40°	987.4	18.4
40°-50°	989.5	18.4
50°-60°	855.1	15.9
60°-70°	595.0	11.1
70°-80°	267.3	5.0
80°-90°	46.4	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°	1631.3	30.4
0°-40°	2618.7	48.7
0°-60°	4463.3	83.1
0°-90°	5372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2184	2184	2184	2184	2184	
5°	2179	2170	2172	2162	2165	207
15°	2073	2060	2050	2036	2039	584
25°	1871	1854	1839	1824	1832	861
35°	1599	1578	1568	1574	1589	999
45°	1280	1266	1272	1297	1314	988
55°	940	930	951	983	994	839
65°	586	584	604	616	618	579
75°	246	248	256	246	239	264
85°	29	31	36	41	43	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2183.5	2183.5	2183.5	2183.5	2183.5
2.5°	2188.9	2179.9	2183.5	2175.6	2174.0
5°	2179.1	2169.8	2172.1	2162.0	2164.9
7.5°	2162.3	2152.3	2152.0	2141.0	2143.7
10°	2139.2	2127.6	2124.9	2112.3	2114.3
12.5°	2108.7	2096.6	2090.9	2076.6	2080.0
15°	2072.8	2059.5	2050.1	2035.7	2038.9
17.5°	2031.2	2016.5	2005.0	1988.5	1993.7
20°	1983.5	1967.6	1954.0	1936.4	1943.2
22.5°	1930.0	1913.3	1897.7	1881.9	1888.7
25°	1871.1	1854.3	1838.8	1824.5	1831.5
27.5°	1809.2	1790.4	1774.9	1764.5	1772.3
30°	1742.2	1722.8	1707.6	1701.1	1712.3
32.5°	1671.5	1652.2	1638.8	1638.8	1651.7
35°	1598.8	1578.5	1567.6	1574.3	1589.4
37.5°	1520.6	1503.5	1496.0	1509.2	1524.6
40°	1443.1	1425.3	1422.6	1440.3	1456.5
42.5°	1363.0	1347.3	1348.3	1371.0	1386.2
45°	1280.1	1265.5	1272.2	1297.4	1313.8
47.5°	1198.6	1183.7	1194.7	1222.2	1240.0
50°	1112.0	1099.8	1114.5	1145.4	1161.6
52.5°	1025.8	1014.2	1033.3	1065.9	1081.6
55°	940.3	929.6	951.0	982.7	994.0
57.5°	851.6	845.4	867.6	895.4	907.2
60°	763.4	758.1	780.6	806.3	816.9
62.5°	675.1	671.9	693.3	714.2	717.8
65°	586.2	584.3	604.3	615.6	617.8
67.5°	496.2	496.9	515.3	521.0	520.8
70°	408.6	408.2	425.0	426.6	421.9
72.5°	323.4	325.6	336.4	333.9	326.4
75°	245.7	247.7	255.5	246.0	238.9
77.5°	173.4	175.1	178.6	168.2	163.7
80°	111.0	114.4	112.4	107.6	104.5
82.5°	62.0	65.5	63.8	68.7	71.0
85°	28.6	30.8	35.5	40.9	43.1
87.5°	9.8	11.7	14.5	15.5	14.4
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	17.08	18.67	17.45	18.98	19.30	17.49	19.08	17.86	19.39	19.70
	3H	18.53	19.96	18.91	20.28	20.64	18.90	20.33	19.28	20.65	21.02
	4H	18.95	20.29	19.35	20.63	21.01	19.27	20.61	19.67	20.95	21.33
	6H	19.15	20.39	19.56	20.75	21.14	19.42	20.66	19.84	21.03	21.42
	8H	19.17	20.35	19.60	20.74	21.14	19.45	20.63	19.87	21.02	21.42
	12H	19.17	20.30	19.60	20.68	21.11	19.46	20.59	19.89	20.97	21.40
4H	2H	17.67	19.01	18.07	19.36	19.73	18.00	19.34	18.40	19.69	20.06
	3H	19.29	20.40	19.70	20.80	21.20	19.60	20.71	20.01	21.11	21.51
	4H	19.80	20.80	20.23	21.21	21.65	20.05	21.05	20.48	21.46	21.90
	6H	20.07	20.94	20.53	21.38	21.84	20.27	21.14	20.73	21.58	22.04
	8H	20.11	20.92	20.57	21.36	21.83	20.31	21.12	20.77	21.57	22.03
	12H	20.12	20.85	20.60	21.32	21.79	20.34	21.07	20.82	21.55	22.02
8H	4H	19.98	20.79	20.44	21.23	21.70	20.21	21.02	20.67	21.46	21.93
	6H	20.30	20.97	20.80	21.46	21.94	20.48	21.15	20.97	21.64	22.11
	8H	20.37	20.97	20.88	21.48	21.96	20.55	21.15	21.06	21.65	22.14
	12H	20.40	20.93	20.91	21.42	21.98	20.61	21.14	21.12	21.63	22.19
12H	4H	19.97	20.70	20.46	21.18	21.65	20.20	20.93	20.68	21.41	21.88
	6H	20.30	20.90	20.81	21.41	21.89	20.47	21.07	20.98	21.58	22.07
	8H	20.39	20.92	20.90	21.41	21.98	20.57	21.10	21.08	21.59	22.16