

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: P1498577

Luminaire Tested: MAE-G-2-120-2STD-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498577
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-2-120-2STD-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

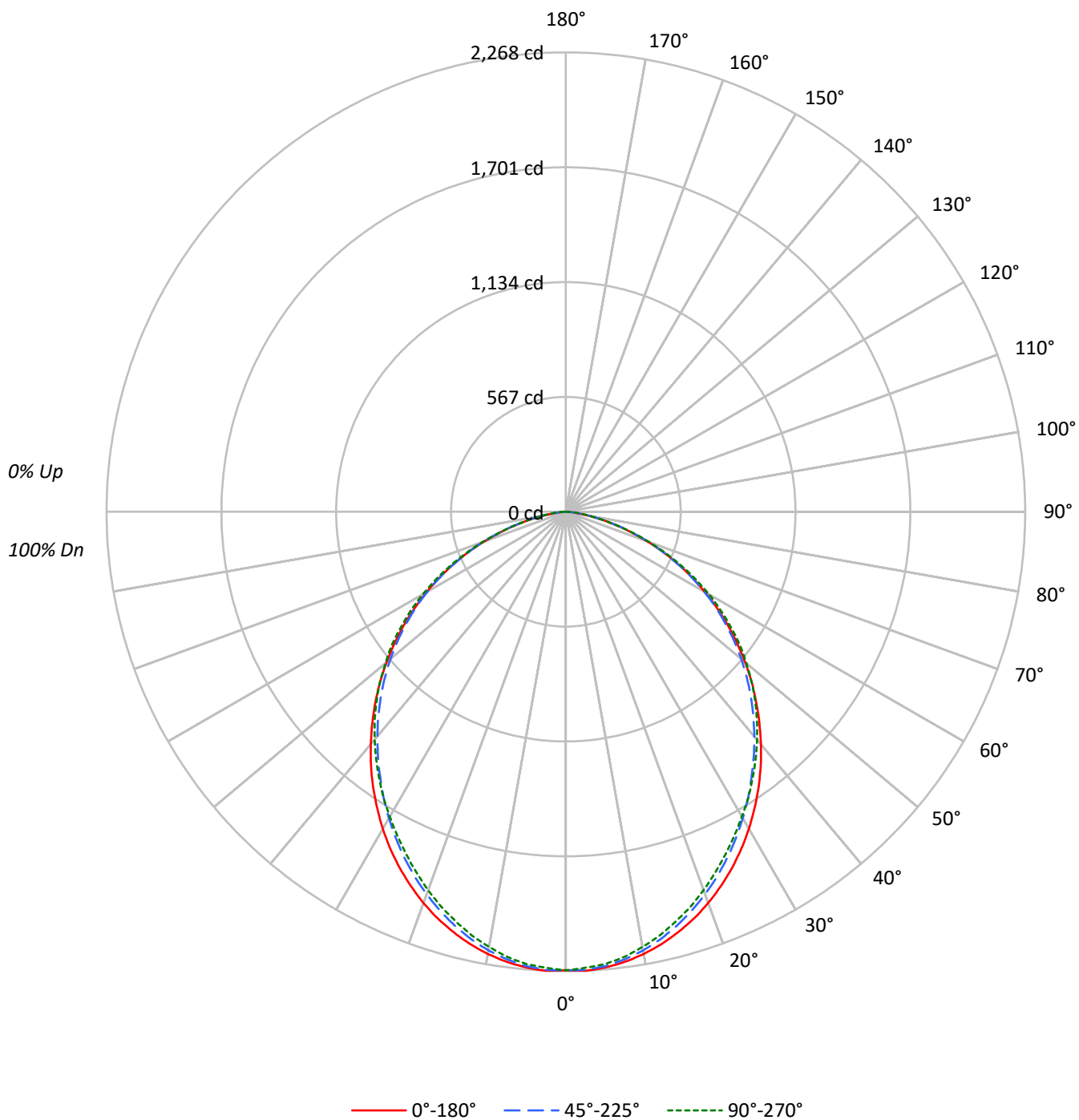
Lumens per Lamp: N/A
Luminaire Lumens: 5506.9 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6092	6092	6092
5°	6101	6081	6053
10°	6058	6008	5962
15°	5984	5894	5836
20°	5886	5754	5694
25°	5763	5598	5539
30°	5616	5428	5401
35°	5451	5252	5280
40°	5262	5085	5159
45°	5058	4915	5030
50°	4837	4731	4869
55°	4581	4513	4668
60°	4274	4242	4401
65°	3887	3881	3993
70°	3357	3392	3445
75°	2676	2753	2728
80°	1813	1918	1934
85°	932	1288	1649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.9	3.9
10°-20°	596.1	10.8
20°-30°	871.3	15.8
30°-40°	1010.3	18.3
40°-50°	1008.3	18.3
50°-60°	868.4	15.8
60°-70°	606.2	11.0
70°-80°	280.7	5.1
80°-90°	52.9	1.0
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°	1680.3	30.5
0°-40°	2690.5	48.9
0°-60°	4567.1	82.9
0°-90°	5506.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5506.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2258	2250	2251	2238	2241	214
15°	2148	2133	2116	2093	2095	605
25°	1941	1918	1885	1863	1866	893
35°	1659	1630	1599	1597	1607	1037
45°	1329	1304	1292	1308	1322	1025
55°	976	956	962	985	995	872
65°	610	601	610	620	627	604
75°	257	254	265	263	262	277
85°	30	34	42	50	53	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2263.8	2263.8	2263.8	2263.8	2263.8
2.5°	2268.4	2261.1	2263.8	2253.8	2253.2
5°	2258.5	2250.4	2251.1	2237.9	2240.9
7.5°	2241.2	2231.8	2229.0	2214.1	2216.8
10°	2217.0	2205.4	2198.8	2180.4	2181.8
12.5°	2186.2	2173.0	2161.5	2140.3	2142.6
15°	2147.8	2132.9	2115.8	2093.4	2094.7
17.5°	2105.5	2089.2	2065.3	2041.6	2045.3
20°	2055.5	2037.5	2009.4	1984.7	1988.5
22.5°	2000.1	1979.7	1950.2	1925.7	1927.7
25°	1940.9	1918.3	1885.4	1863.1	1865.6
27.5°	1876.5	1851.3	1817.8	1797.7	1802.1
30°	1807.4	1780.9	1747.0	1731.9	1738.1
32.5°	1734.6	1707.5	1674.4	1666.1	1675.4
35°	1659.3	1630.4	1598.6	1597.1	1607.4
37.5°	1580.8	1552.5	1523.7	1528.6	1539.3
40°	1497.9	1471.1	1447.6	1456.8	1468.5
42.5°	1414.5	1388.6	1370.5	1384.3	1396.7
45°	1329.2	1303.6	1291.5	1308.5	1321.8
47.5°	1244.6	1218.7	1212.2	1231.7	1243.8
50°	1155.4	1132.2	1130.1	1151.4	1163.0
52.5°	1065.4	1044.0	1046.7	1069.6	1084.0
55°	976.5	956.5	961.9	984.7	994.9
57.5°	885.2	869.2	876.4	896.9	907.0
60°	794.2	779.4	788.1	807.7	817.8
62.5°	702.3	689.4	699.5	716.2	722.8
65°	610.5	600.6	609.5	620.5	627.1
67.5°	520.0	510.9	520.8	531.5	534.0
70°	426.7	420.7	431.1	437.6	437.8
72.5°	340.7	335.0	345.1	347.8	346.3
75°	257.4	254.2	264.8	263.2	262.4
77.5°	181.6	182.8	188.6	187.4	187.2
80°	117.0	121.1	123.8	125.5	124.8
82.5°	65.8	69.6	73.6	82.5	85.9
85°	30.2	34.0	41.7	49.9	53.4
87.5°	10.2	13.2	17.5	18.9	17.9
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	17.21	18.79	17.57	19.10	19.42	17.42	19.00	17.78	19.31	19.63
	3H	18.67	20.09	19.05	20.42	20.78	18.89	20.31	19.27	20.64	21.00
	4H	19.10	20.43	19.49	20.78	21.16	19.31	20.64	19.71	20.99	21.37
	6H	19.30	20.54	19.72	20.91	21.30	19.52	20.76	19.93	21.12	21.51
	8H	19.33	20.51	19.76	20.90	21.30	19.57	20.74	19.99	21.13	21.53
	12H	19.33	20.46	19.76	20.84	21.27	19.59	20.72	20.02	21.10	21.53
4H	2H	17.76	19.10	18.16	19.45	19.82	17.93	19.27	18.33	19.62	20.00
	3H	19.40	20.52	19.81	20.92	21.32	19.59	20.70	20.00	21.10	21.50
	4H	19.92	20.92	20.35	21.33	21.77	20.10	21.10	20.53	21.52	21.96
	6H	20.20	21.07	20.66	21.51	21.97	20.40	21.27	20.85	21.71	22.17
	8H	20.25	21.06	20.71	21.50	21.97	20.47	21.28	20.93	21.72	22.19
	12H	20.26	20.99	20.74	21.46	21.93	20.52	21.25	21.00	21.72	22.19
8H	4H	20.10	20.92	20.57	21.36	21.83	20.28	21.09	20.74	21.53	22.00
	6H	20.45	21.12	20.94	21.61	22.09	20.63	21.30	21.12	21.79	22.26
	8H	20.52	21.12	21.03	21.63	22.11	20.73	21.33	21.24	21.84	22.33
	12H	20.55	21.08	21.06	21.58	22.14	20.83	21.36	21.33	21.85	22.41
12H	4H	20.10	20.83	20.59	21.31	21.78	20.27	21.00	20.75	21.48	21.95
	6H	20.45	21.05	20.96	21.56	22.05	20.62	21.23	21.14	21.73	22.22
	8H	20.55	21.08	21.06	21.58	22.14	20.77	21.30	21.27	21.79	22.35