

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: P1498439

Luminaire Tested: MAE-G-2-120-2LO-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498439
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-35-90-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

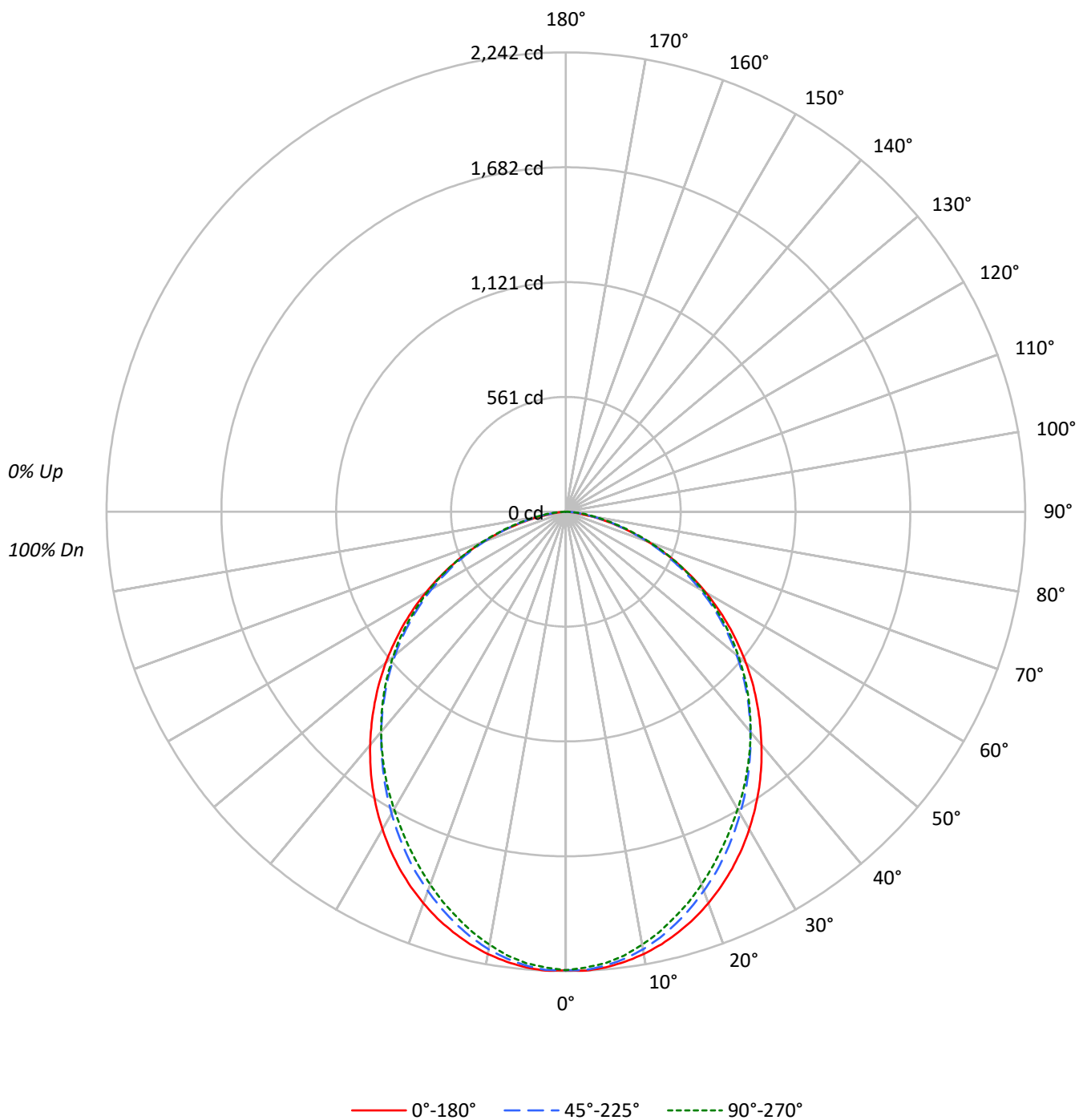
Lumens per Lamp: N/A
Luminaire Lumens: 5382.0 lumens
Efficiency: N/A
Efficacy: 77.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6022	6022	6022
5°	6030	6007	5974
10°	5989	5925	5863
15°	5917	5796	5710
20°	5824	5639	5545
25°	5703	5470	5368
30°	5562	5287	5208
35°	5402	5101	5068
40°	5219	4924	4927
45°	5021	4746	4781
50°	4804	4556	4607
55°	4554	4336	4411
60°	4254	4070	4182
65°	3878	3733	3869
70°	3360	3315	3451
75°	2690	2782	2898
80°	1844	2080	2253
85°	973	1510	1998

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5021 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.2	3.9
10°-20°	586.1	10.9
20°-30°	852.5	15.8
30°-40°	983.6	18.3
40°-50°	976.8	18.2
50°-60°	838.4	15.6
60°-70°	590.0	11.0
70°-80°	285.1	5.3
80°-90°	59.4	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°	1648.8	30.6
0°-40°	2632.3	48.9
0°-60°	4447.6	82.6
0°-90°	5382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2238	2238	2238	2238	2238	
5°	2232	2226	2224	2208	2212	212
15°	2124	2108	2081	2050	2050	599
25°	1921	1892	1842	1809	1808	884
35°	1644	1605	1553	1538	1543	1028
45°	1319	1281	1247	1249	1256	1018
55°	971	939	924	934	940	867
65°	609	588	586	600	608	602
75°	259	250	268	276	279	278
85°	32	37	49	60	65	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2237.7	2237.7	2237.7	2237.7	2237.7
2.5°	2241.7	2236.7	2237.7	2225.3	2226.4
5°	2232.3	2225.8	2223.9	2207.9	2211.5
7.5°	2215.3	2206.7	2200.2	2181.3	2184.1
10°	2191.8	2180.4	2168.3	2144.5	2145.6
12.5°	2161.5	2147.6	2128.6	2100.4	2101.8
15°	2124.0	2107.6	2080.6	2049.6	2049.7
17.5°	2082.4	2063.3	2027.5	1994.1	1996.3
20°	2033.6	2011.5	1969.3	1934.7	1936.2
22.5°	1979.3	1953.5	1908.6	1873.4	1872.6
25°	1920.9	1891.7	1842.1	1808.7	1808.0
27.5°	1857.9	1825.1	1773.0	1741.6	1742.3
30°	1790.1	1754.9	1701.4	1674.3	1676.2
32.5°	1718.6	1681.7	1628.7	1607.3	1611.8
35°	1644.5	1604.9	1552.8	1537.5	1542.6
37.5°	1566.9	1527.7	1477.8	1468.5	1473.5
40°	1485.6	1447.3	1401.8	1396.5	1402.5
42.5°	1403.2	1365.7	1325.3	1324.2	1330.7
45°	1319.3	1281.4	1247.1	1249.3	1256.3
47.5°	1235.0	1197.7	1169.1	1173.8	1180.1
50°	1147.6	1112.3	1088.3	1095.3	1100.5
52.5°	1057.9	1025.1	1007.0	1015.7	1024.1
55°	970.6	938.8	924.3	934.1	940.1
57.5°	880.3	852.8	841.5	851.7	858.5
60°	790.4	764.4	756.2	768.8	777.1
62.5°	699.4	675.5	671.6	685.3	692.9
65°	609.0	588.2	586.3	600.2	607.7
67.5°	519.0	500.4	503.6	520.0	524.6
70°	427.1	412.0	421.3	435.2	438.6
72.5°	341.4	328.7	342.1	353.8	355.6
75°	258.7	250.3	267.6	275.7	278.7
77.5°	183.5	181.3	196.1	204.2	207.8
80°	119.0	122.6	134.2	143.5	145.4
82.5°	67.7	72.9	83.8	97.1	102.3
85°	31.5	37.1	48.9	59.9	64.7
87.5°	10.6	14.6	20.7	22.6	21.6
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	17.17	18.75	17.53	19.07	19.38	17.13	18.72	17.50	19.03	19.35
	3H	18.65	20.07	19.03	20.40	20.76	18.71	20.13	19.08	20.46	20.82
	4H	19.08	20.42	19.48	20.77	21.15	19.20	20.54	19.60	20.89	21.27
	6H	19.30	20.54	19.71	20.91	21.30	19.50	20.74	19.91	21.10	21.49
	8H	19.33	20.52	19.76	20.90	21.30	19.58	20.76	20.01	21.15	21.55
	12H	19.34	20.47	19.77	20.85	21.28	19.64	20.77	20.07	21.15	21.58
4H	2H	17.70	19.03	18.09	19.38	19.76	17.67	19.01	18.06	19.35	19.73
	3H	19.36	20.47	19.77	20.87	21.27	19.43	20.55	19.84	20.95	21.35
	4H	19.88	20.88	20.31	21.30	21.74	20.04	21.04	20.47	21.45	21.89
	6H	20.18	21.05	20.64	21.50	21.95	20.43	21.30	20.88	21.74	22.20
	8H	20.23	21.05	20.69	21.49	21.96	20.54	21.36	21.00	21.80	22.27
	12H	20.25	20.98	20.73	21.46	21.93	20.63	21.36	21.11	21.84	22.31
8H	4H	20.09	20.90	20.55	21.35	21.81	20.23	21.04	20.69	21.49	21.95
	6H	20.45	21.13	20.95	21.62	22.09	20.70	21.37	21.19	21.86	22.34
	8H	20.53	21.14	21.04	21.64	22.13	20.86	21.46	21.37	21.97	22.46
	12H	20.58	21.11	21.08	21.60	22.16	21.00	21.53	21.51	22.03	22.59
12H	4H	20.09	20.82	20.57	21.30	21.77	20.23	20.96	20.71	21.44	21.91
	6H	20.46	21.07	20.98	21.58	22.06	20.70	21.31	21.21	21.81	22.30
	8H	20.58	21.12	21.09	21.61	22.17	20.90	21.44	21.41	21.93	22.49