

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: P1498068

Luminaire Tested: MAE-G-2-120-1HI-HI-50-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-HI-50-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

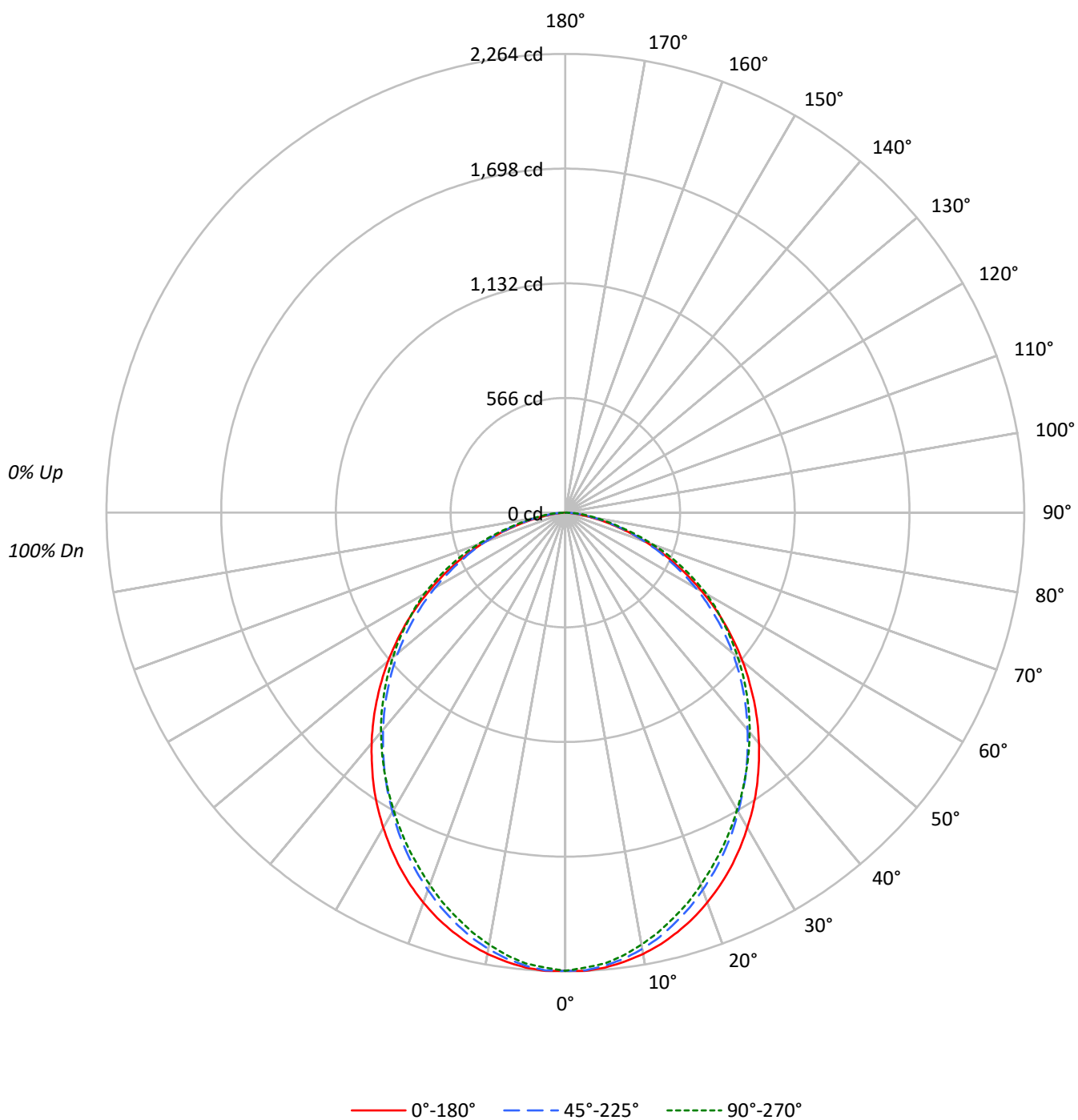
Lumens per Lamp: N/A
Luminaire Lumens: 5402.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6085	6085	6085
5°	6088	6064	6033
10°	6044	5975	5916
15°	5968	5840	5764
20°	5864	5674	5599
25°	5735	5495	5431
30°	5580	5297	5266
35°	5414	5109	5113
40°	5223	4913	4970
45°	5010	4719	4813
50°	4783	4513	4649
55°	4519	4273	4479
60°	4195	3999	4331
65°	3820	3647	4040
70°	3316	3286	3621
75°	2649	2810	3004
80°	1835	2190	2411
85°	1028	1683	2205

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5010 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	3.9
10°-20°	591.2	10.9
20°-30°	858.2	15.9
30°-40°	986.8	18.3
40°-50°	976.1	18.1
50°-60°	835.3	15.5
60°-70°	589.9	10.9
70°-80°	288.6	5.3
80°-90°	63.6	1.2
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°	1661.6	30.8
0°-40°	2648.4	49.0
0°-60°	4459.8	82.6
0°-90°	5402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5402.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2261	2261	2261	2261	2261	
5°	2254	2252	2245	2228	2234	214
15°	2142	2130	2096	2066	2069	604
25°	1931	1902	1851	1825	1829	889
35°	1648	1607	1555	1547	1556	1030
45°	1316	1279	1240	1252	1265	1015
55°	963	928	911	935	955	860
65°	600	573	573	616	634	594
75°	255	243	270	288	289	275
85°	33	41	54	66	71	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2261.3	2261.3	2261.3	2261.3	2261.3
2.5°	2263.9	2265.9	2261.3	2244.2	2247.2
5°	2253.6	2251.7	2244.7	2228.3	2233.5
7.5°	2235.6	2232.4	2219.9	2200.4	2203.7
10°	2211.8	2205.4	2186.8	2162.3	2164.9
12.5°	2181.0	2172.2	2145.9	2117.9	2120.6
15°	2142.3	2129.9	2096.1	2066.5	2069.1
17.5°	2098.0	2083.6	2042.6	2010.3	2016.4
20°	2047.8	2028.4	1981.2	1950.3	1955.3
22.5°	1992.4	1968.2	1918.4	1888.4	1892.1
25°	1931.4	1902.1	1850.7	1824.6	1829.0
27.5°	1865.8	1833.4	1780.3	1756.2	1763.2
30°	1795.7	1760.7	1704.6	1686.9	1694.6
32.5°	1723.6	1686.5	1630.9	1618.5	1626.2
35°	1648.0	1607.4	1555.3	1546.7	1556.5
37.5°	1566.9	1527.8	1476.2	1476.9	1486.0
40°	1486.8	1446.2	1398.7	1403.8	1414.8
42.5°	1403.2	1364.0	1320.3	1328.7	1341.8
45°	1316.4	1278.7	1240.1	1252.3	1264.7
47.5°	1229.0	1191.8	1159.8	1174.6	1189.5
50°	1142.4	1106.5	1078.1	1096.7	1110.5
52.5°	1051.4	1017.2	995.8	1015.8	1034.0
55°	963.2	928.5	910.8	935.2	954.7
57.5°	872.0	843.3	827.8	857.2	881.9
60°	779.5	751.3	743.0	781.1	804.8
62.5°	689.1	661.3	656.5	702.0	719.6
65°	600.0	572.7	572.7	615.6	634.5
67.5°	511.5	486.6	495.9	537.8	550.6
70°	421.5	399.3	417.6	453.3	460.2
72.5°	336.9	318.3	343.9	369.7	371.9
75°	254.8	243.1	270.3	288.1	288.9
77.5°	182.4	176.3	201.8	214.5	215.9
80°	118.4	121.0	141.3	151.5	155.6
82.5°	69.1	75.3	91.4	106.9	111.3
85°	33.3	40.8	54.5	66.4	71.4
87.5°	11.5	16.5	22.8	25.3	24.6
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	17.08	18.66	17.44	18.98	19.29	17.20	18.78	17.56	19.09	19.41
	3H	18.53	19.96	18.91	20.28	20.64	18.86	20.28	19.23	20.61	20.97
	4H	18.96	20.30	19.36	20.65	21.03	19.37	20.71	19.77	21.06	21.44
	6H	19.18	20.42	19.60	20.79	21.18	19.68	20.92	20.09	21.29	21.68
	8H	19.22	20.40	19.64	20.79	21.19	19.78	20.96	20.20	21.35	21.75
	12H	19.22	20.35	19.65	20.74	21.17	19.84	20.97	20.27	21.35	21.78
4H	2H	17.59	18.93	17.99	19.28	19.65	17.69	19.02	18.08	19.37	19.75
	3H	19.23	20.34	19.64	20.74	21.14	19.55	20.67	19.96	21.06	21.46
	4H	19.74	20.75	20.18	21.16	21.60	20.18	21.19	20.61	21.60	22.04
	6H	20.05	20.92	20.50	21.36	21.82	20.60	21.47	21.05	21.91	22.37
	8H	20.10	20.92	20.57	21.36	21.83	20.73	21.54	21.19	21.99	22.45
	12H	20.13	20.86	20.61	21.34	21.81	20.83	21.56	21.31	22.04	22.51
8H	4H	19.97	20.79	20.43	21.23	21.70	20.37	21.18	20.83	21.63	22.09
	6H	20.34	21.02	20.84	21.51	21.98	20.87	21.54	21.36	22.03	22.51
	8H	20.43	21.04	20.94	21.55	22.03	21.05	21.66	21.56	22.16	22.65
	12H	20.49	21.02	20.99	21.51	22.07	21.22	21.75	21.72	22.24	22.81
12H	4H	19.98	20.72	20.47	21.19	21.66	20.37	21.10	20.85	21.57	22.04
	6H	20.36	20.97	20.88	21.48	21.97	20.87	21.48	21.38	21.99	22.47
	8H	20.50	21.03	21.00	21.52	22.08	21.10	21.64	21.61	22.13	22.69