

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: P1498800

Luminaire Tested: MAE-G-2-120-3STD-35-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498800
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-2-120-3STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

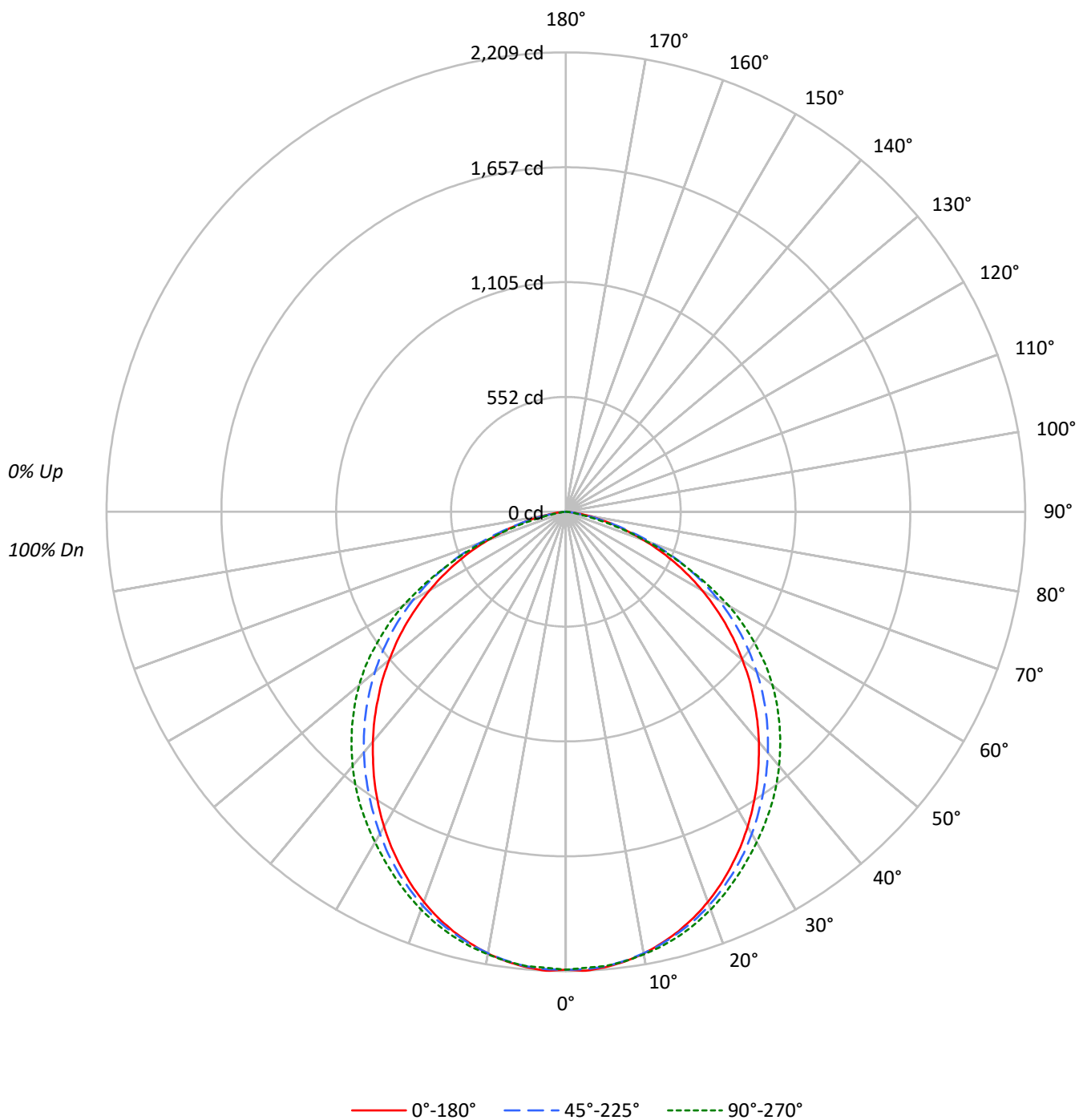
Lumens per Lamp: N/A
Luminaire Lumens: 5581.0 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.3
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	64	64	62
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	59	55	55	55	53
5	78	65	56	50	76	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	41
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	36	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5926	5926	5926
5°	5938	5926	5923
10°	5895	5892	5906
15°	5819	5838	5881
20°	5718	5771	5830
25°	5586	5675	5764
30°	5434	5558	5703
35°	5263	5431	5660
40°	5072	5308	5603
45°	4865	5177	5532
50°	4640	5017	5433
55°	4390	4823	5224
60°	4075	4557	4875
65°	3679	4156	4175
70°	3140	3489	3245
75°	2466	2546	1996
80°	1610	1309	773
85°	772	519	411

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5532 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	3.7
10°-20°	590.5	10.6
20°-30°	878.3	15.7
30°-40°	1034.9	18.5
40°-50°	1049.3	18.8
50°-60°	914.4	16.4
60°-70°	625.3	11.2
70°-80°	251.2	4.5
80°-90°	29.1	0.5
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°	1676.8	30.0
0°-40°	2711.7	48.6
0°-60°	4675.4	83.8
0°-90°	5581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5581.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2202	2202	2202	2202	2202	
5°	2198	2185	2194	2191	2193	209
15°	2089	2080	2096	2104	2111	589
25°	1881	1882	1911	1925	1941	866
35°	1602	1609	1653	1694	1723	1001
45°	1278	1296	1360	1422	1454	987
55°	936	956	1028	1093	1114	835
65°	578	604	653	658	656	571
75°	237	253	245	210	192	255
85°	25	22	17	15	13	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2202.0	2202.0	2202.0	2202.0	2202.0
2.5°	2209.1	2194.3	2202.0	2200.4	2194.8
5°	2198.4	2185.1	2193.8	2191.3	2192.8
7.5°	2181.1	2168.9	2178.0	2177.6	2180.1
10°	2157.2	2144.9	2156.2	2158.2	2161.3
12.5°	2125.6	2115.5	2129.2	2133.2	2139.3
15°	2088.9	2079.8	2095.5	2104.2	2110.9
17.5°	2046.1	2038.5	2058.9	2067.1	2076.2
20°	1996.7	1991.2	2015.1	2022.7	2036.0
22.5°	1941.8	1938.8	1963.7	1975.4	1990.7
25°	1881.2	1881.7	1911.2	1925.1	1941.3
27.5°	1817.6	1818.6	1852.3	1871.5	1888.8
30°	1748.8	1751.9	1788.6	1812.5	1835.4
32.5°	1676.0	1682.1	1721.8	1754.5	1779.9
35°	1602.2	1609.3	1653.2	1693.8	1722.8
37.5°	1522.3	1534.0	1583.4	1631.8	1661.7
40°	1443.9	1455.6	1511.1	1564.5	1595.1
42.5°	1363.0	1377.7	1436.8	1496.3	1525.8
45°	1278.5	1295.7	1360.4	1421.5	1453.6
47.5°	1197.4	1212.7	1280.9	1344.6	1377.7
50°	1108.3	1127.7	1198.5	1265.2	1297.8
52.5°	1023.4	1041.1	1113.9	1182.2	1211.7
55°	935.8	955.6	1028.0	1092.6	1113.5
57.5°	846.1	870.1	939.9	993.9	1013.7
60°	757.1	781.0	846.7	891.0	905.8
62.5°	668.4	694.0	751.5	781.0	781.0
65°	577.8	603.8	652.7	657.7	655.7
67.5°	487.3	513.3	550.4	541.2	535.1
70°	399.1	421.5	443.5	426.6	412.4
72.5°	313.6	335.0	338.6	314.2	296.3
75°	237.2	253.1	244.9	210.3	192.0
77.5°	165.4	174.6	157.3	122.2	107.5
80°	103.9	107.9	84.5	59.5	49.9
82.5°	56.0	56.5	36.7	30.0	28.0
85°	25.0	22.4	16.8	14.7	13.3
87.5°	8.7	7.7	6.1	5.6	4.6
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	17.11	18.69	17.47	19.01	19.32	18.09	19.68	18.46	19.99	20.30
	3H	18.52	19.94	18.90	20.27	20.63	19.30	20.72	19.67	21.04	21.41
	4H	18.91	20.25	19.31	20.59	20.97	19.51	20.85	19.91	21.19	21.57
	6H	19.09	20.32	19.50	20.68	21.08	19.53	20.76	19.94	21.13	21.52
	8H	19.10	20.28	19.53	20.66	21.06	19.51	20.68	19.93	21.07	21.47
	12H	19.09	20.22	19.52	20.60	21.03	19.48	20.61	19.91	20.99	21.42
4H	2H	17.78	19.11	18.18	19.46	19.84	18.57	19.90	18.97	20.25	20.63
	3H	19.35	20.45	19.76	20.85	21.25	19.94	21.04	20.35	21.44	21.84
	4H	19.82	20.82	20.26	21.23	21.67	20.21	21.21	20.64	21.62	22.06
	6H	20.06	20.93	20.52	21.37	21.83	20.26	21.12	20.72	21.57	22.02
	8H	20.09	20.89	20.55	21.33	21.80	20.24	21.04	20.70	21.49	21.95
	12H	20.09	20.81	20.57	21.28	21.75	20.22	20.94	20.70	21.41	21.88
8H	4H	19.97	20.77	20.43	21.22	21.68	20.33	21.13	20.79	21.58	22.04
	6H	20.24	20.91	20.74	21.40	21.87	20.39	21.05	20.89	21.54	22.02
	8H	20.28	20.88	20.80	21.39	21.87	20.37	20.96	20.88	21.47	21.96
	12H	20.30	20.82	20.81	21.31	21.88	20.35	20.87	20.86	21.37	21.93
12H	4H	19.95	20.67	20.43	21.15	21.62	20.32	21.04	20.80	21.51	21.99
	6H	20.21	20.81	20.73	21.32	21.80	20.37	20.96	20.88	21.47	21.96
	8H	20.28	20.80	20.79	21.29	21.86	20.37	20.89	20.88	21.38	21.94