

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: P1498254

Luminaire Tested: MAE-G-2-120-1STD-HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498254
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-2-120-1STD-HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

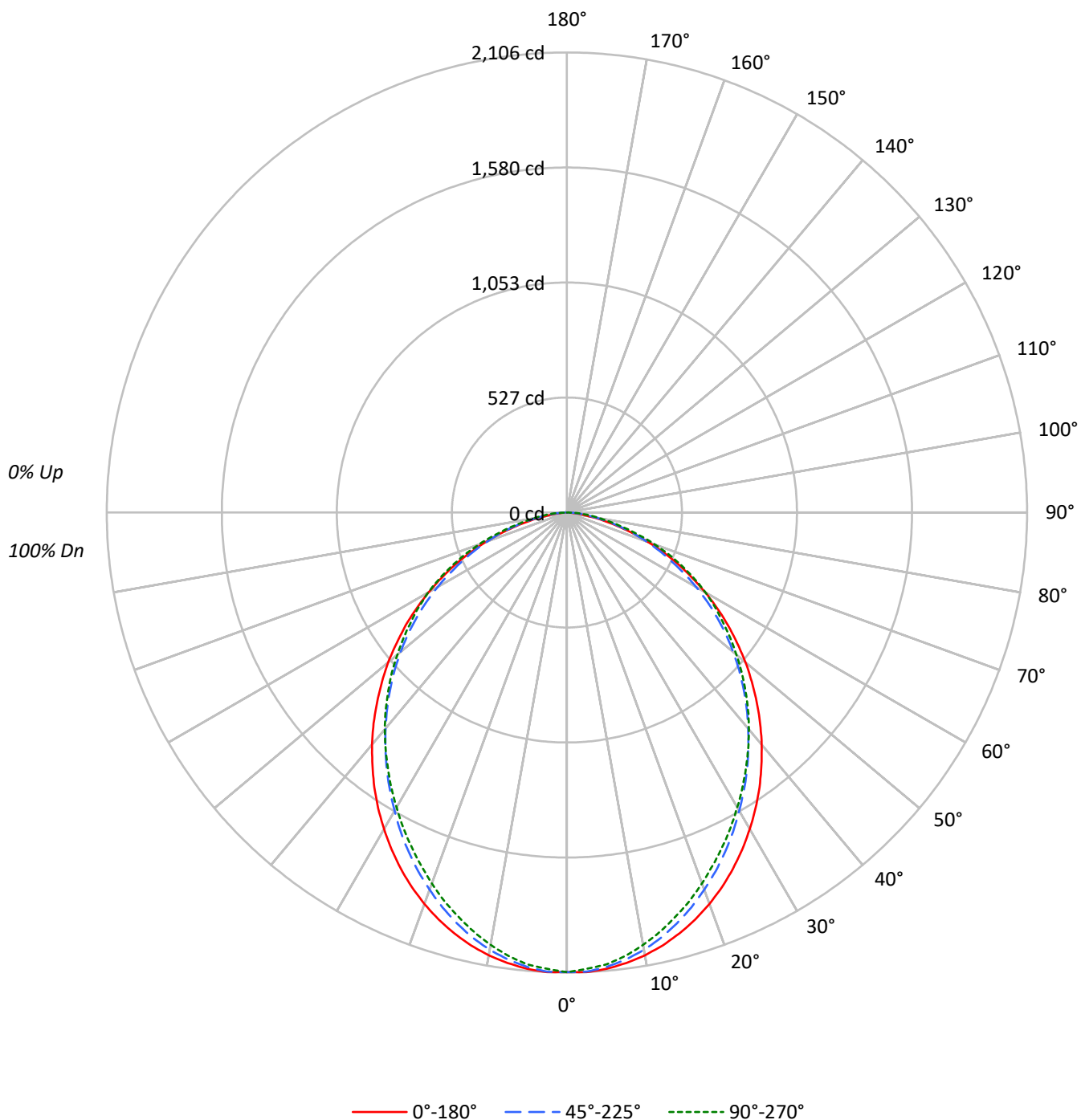
Lumens per Lamp: N/A
Luminaire Lumens: 5004.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5662	5662	5662
5°	5664	5641	5609
10°	5624	5555	5492
15°	5555	5422	5339
20°	5460	5261	5174
25°	5342	5089	5007
30°	5200	4900	4844
35°	5048	4721	4694
40°	4872	4535	4553
45°	4676	4351	4399
50°	4467	4158	4240
55°	4224	3936	4079
60°	3927	3681	3947
65°	3580	3363	3712
70°	3112	3048	3373
75°	2490	2641	2871
80°	1733	2104	2373
85°	973	1649	2183

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4676 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.4	3.9
10°-20°	548.9	11.0
20°-30°	795.1	15.9
30°-40°	912.6	18.2
40°-50°	901.0	18.0
50°-60°	770.0	15.4
60°-70°	545.6	10.9
70°-80°	271.7	5.4
80°-90°	61.8	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°	1541.3	30.8
0°-40°	2453.9	49.0
0°-60°	4124.9	82.4
0°-90°	5004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2104	2104	2104	2104	2104	
5°	2097	2095	2088	2072	2077	199
15°	1994	1981	1946	1915	1916	562
25°	1799	1769	1714	1684	1686	828
35°	1536	1494	1437	1422	1429	960
45°	1229	1188	1143	1148	1156	948
55°	900	863	839	854	870	804
65°	562	533	528	566	583	556
75°	240	227	254	274	276	258
85°	32	39	53	66	71	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2103.9	2103.9	2103.9	2103.9	2103.9
2.5°	2106.3	2108.2	2103.9	2087.3	2090.8
5°	2096.8	2095.3	2088.3	2071.8	2076.6
7.5°	2080.3	2077.1	2064.5	2044.6	2047.6
10°	2058.3	2051.8	2032.8	2007.7	2009.9
12.5°	2029.7	2020.7	1993.6	1964.6	1966.5
15°	1994.1	1981.2	1946.3	1914.8	1916.4
17.5°	1953.2	1937.9	1895.2	1860.8	1865.3
20°	1906.8	1886.6	1837.1	1803.6	1806.9
22.5°	1855.6	1830.4	1777.9	1744.8	1746.5
25°	1799.1	1768.8	1714.0	1684.0	1686.2
27.5°	1738.5	1704.9	1647.6	1619.3	1623.7
30°	1673.6	1637.2	1576.8	1554.2	1558.9
32.5°	1606.8	1567.9	1507.9	1489.8	1494.6
35°	1536.5	1494.3	1437.0	1422.4	1428.8
37.5°	1461.5	1420.4	1363.3	1356.9	1362.6
40°	1386.9	1344.5	1290.9	1288.5	1296.0
42.5°	1309.3	1267.9	1218.0	1218.6	1227.6
45°	1228.8	1188.5	1143.4	1147.7	1155.9
47.5°	1147.6	1108.0	1069.1	1075.6	1086.3
50°	1067.1	1028.5	993.3	1003.5	1012.7
52.5°	982.1	945.5	917.2	928.7	942.2
55°	900.4	863.2	838.9	854.4	869.5
57.5°	815.6	783.8	762.2	783.2	802.9
60°	729.7	698.7	684.0	713.8	733.4
62.5°	645.2	615.1	604.9	642.5	658.2
65°	562.2	532.8	528.1	566.2	582.9
67.5°	479.4	452.9	458.1	496.8	508.6
70°	395.5	371.7	387.4	421.4	428.7
72.5°	316.3	296.5	320.6	346.9	350.2
75°	239.5	226.9	254.0	273.5	276.1
77.5°	171.7	165.1	191.4	206.6	209.8
80°	111.8	114.1	135.8	148.5	153.1
82.5°	65.4	71.7	89.0	105.2	110.0
85°	31.5	39.1	53.4	65.5	70.7
87.5°	10.9	15.9	22.5	25.0	24.3
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	16.84	18.43	17.21	18.74	19.06	16.83	18.41	17.20	18.73	19.04
	3H	18.31	19.73	18.68	20.06	20.42	18.53	19.96	18.91	20.28	20.64
	4H	18.74	20.08	19.14	20.43	20.81	19.08	20.42	19.48	20.77	21.15
	6H	18.97	20.21	19.38	20.57	20.96	19.43	20.67	19.84	21.04	21.43
	8H	19.01	20.19	19.43	20.58	20.98	19.54	20.72	19.97	21.11	21.51
	12H	19.01	20.14	19.44	20.53	20.95	19.62	20.75	20.05	21.13	21.56
4H	2H	17.34	18.68	17.74	19.03	19.41	17.33	18.67	17.73	19.02	19.40
	3H	18.99	20.11	19.40	20.51	20.91	19.24	20.36	19.65	20.75	21.15
	4H	19.52	20.52	19.95	20.94	21.37	19.91	20.92	20.34	21.33	21.77
	6H	19.83	20.70	20.28	21.14	21.60	20.37	21.25	20.83	21.69	22.15
	8H	19.88	20.70	20.35	21.15	21.61	20.52	21.34	20.98	21.78	22.25
	12H	19.91	20.64	20.39	21.12	21.59	20.64	21.37	21.12	21.85	22.32
8H	4H	19.75	20.57	20.21	21.01	21.48	20.10	20.92	20.57	21.37	21.83
	6H	20.13	20.81	20.62	21.30	21.77	20.66	21.33	21.15	21.82	22.30
	8H	20.22	20.83	20.73	21.34	21.82	20.87	21.47	21.38	21.98	22.47
	12H	20.28	20.82	20.79	21.31	21.87	21.05	21.59	21.56	22.08	22.64
12H	4H	19.77	20.50	20.25	20.98	21.45	20.11	20.84	20.59	21.32	21.79
	6H	20.16	20.77	20.67	21.27	21.76	20.67	21.27	21.18	21.78	22.27
	8H	20.29	20.83	20.80	21.32	21.88	20.92	21.46	21.43	21.95	22.51