

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: P1498302

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498302
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-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

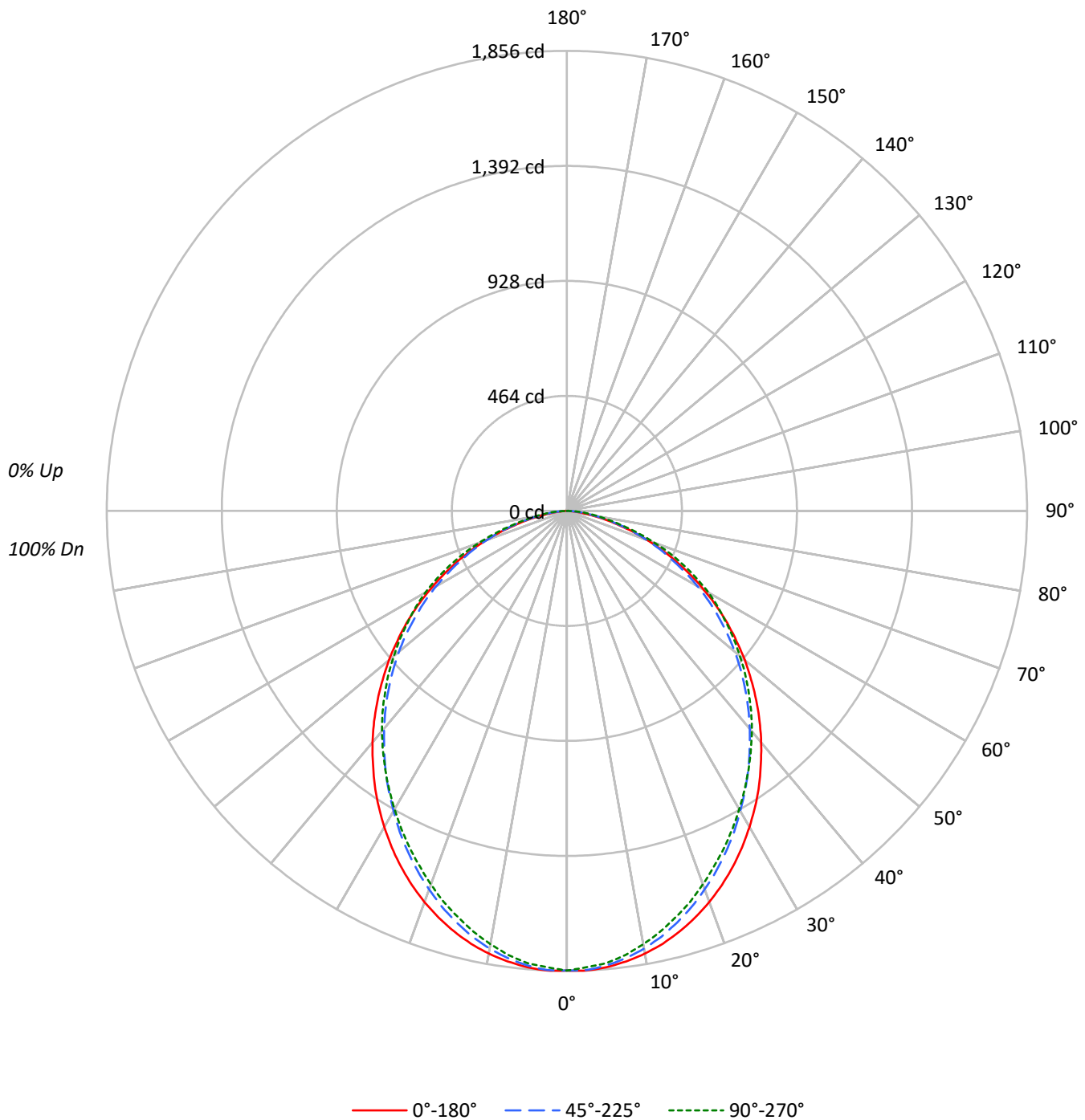
Lumens per Lamp: N/A
Luminaire Lumens: 4430.0 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	99	96	93		95	92	90		91
2	100	92	86	80	97	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	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	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°	4990	4990	4990
5°	4992	4973	4947
10°	4956	4900	4851
15°	4895	4789	4727
20°	4809	4653	4592
25°	4703	4506	4453
30°	4576	4344	4318
35°	4439	4190	4193
40°	4283	4029	4076
45°	4108	3870	3947
50°	3922	3701	3813
55°	3706	3505	3674
60°	3441	3279	3552
65°	3132	2990	3313
70°	2720	2694	2969
75°	2172	2305	2463
80°	1505	1796	1977
85°	843	1380	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4108 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.0	3.9
10°-20°	484.8	10.9
20°-30°	703.7	15.9
30°-40°	809.3	18.3
40°-50°	800.4	18.1
50°-60°	685.0	15.5
60°-70°	483.8	10.9
70°-80°	236.7	5.3
80°-90°	52.2	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°	1362.6	30.8
0°-40°	2171.9	49.0
0°-60°	3657.4	82.6
0°-90°	4430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1854	1854	1854	1854	1854	
5°	1848	1847	1841	1827	1832	175
15°	1757	1747	1719	1695	1697	495
25°	1584	1560	1518	1496	1500	729
35°	1351	1318	1276	1268	1276	844
45°	1080	1049	1017	1027	1037	833
55°	790	761	747	767	783	705
65°	492	470	470	505	520	487
75°	209	199	222	236	237	225
85°	27	33	45	54	58	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.4	1854.4	1854.4	1854.4	1854.4
2.5°	1856.5	1858.1	1854.4	1840.3	1842.9
5°	1848.0	1846.6	1840.9	1827.4	1831.5
7.5°	1833.3	1830.7	1820.4	1804.4	1807.1
10°	1813.8	1808.6	1793.2	1773.2	1775.4
12.5°	1788.5	1781.4	1759.7	1736.8	1739.0
15°	1756.9	1746.6	1718.9	1694.6	1696.8
17.5°	1720.5	1708.6	1675.0	1648.6	1653.5
20°	1679.3	1663.5	1624.7	1599.4	1603.5
22.5°	1633.9	1614.0	1573.2	1548.6	1551.6
25°	1583.9	1559.8	1517.7	1496.3	1499.9
27.5°	1530.1	1503.5	1460.0	1440.1	1446.0
30°	1472.6	1443.9	1397.9	1383.5	1389.7
32.5°	1413.5	1382.9	1337.5	1327.4	1333.6
35°	1351.4	1318.2	1275.5	1268.4	1276.4
37.5°	1285.0	1252.9	1210.6	1211.2	1218.7
40°	1219.2	1186.0	1147.0	1151.2	1160.4
42.5°	1150.7	1118.6	1082.8	1089.6	1100.4
45°	1079.5	1048.6	1016.9	1027.0	1037.1
47.5°	1007.9	977.4	951.1	963.2	975.6
50°	936.8	907.4	884.1	899.4	910.8
52.5°	862.2	834.1	816.6	833.1	848.1
55°	789.9	761.4	747.1	766.9	783.0
57.5°	715.2	691.5	678.9	703.0	723.3
60°	639.3	616.0	609.3	640.6	660.0
62.5°	565.0	542.3	538.4	575.7	590.1
65°	491.9	469.6	469.6	504.9	520.3
67.5°	419.5	399.0	406.7	441.1	451.5
70°	345.7	327.5	342.4	371.8	377.3
72.5°	276.3	261.0	282.0	303.2	304.9
75°	208.9	199.4	221.7	236.2	236.9
77.5°	149.6	144.6	165.5	175.9	177.0
80°	97.1	99.3	115.9	124.2	127.6
82.5°	56.7	61.8	74.9	87.7	91.2
85°	27.3	33.4	44.7	54.4	58.5
87.5°	9.5	13.6	18.7	20.8	20.2
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	16.39	17.97	16.75	18.29	18.60	16.51	18.09	16.87	18.40	18.72
	3H	17.84	19.27	18.22	19.59	19.96	18.17	19.59	18.54	19.92	20.28
	4H	18.27	19.61	18.67	19.96	20.34	18.68	20.02	19.08	20.37	20.75
	6H	18.49	19.73	18.91	20.10	20.49	18.99	20.23	19.40	20.60	20.99
	8H	18.53	19.71	18.95	20.10	20.50	19.09	20.27	19.51	20.66	21.06
	12H	18.53	19.67	18.96	20.05	20.48	19.15	20.28	19.58	20.67	21.09
4H	2H	16.90	18.24	17.30	18.59	18.96	17.00	18.34	17.40	18.68	19.06
	3H	18.54	19.65	18.95	20.05	20.45	18.86	19.98	19.27	20.38	20.78
	4H	19.05	20.06	19.49	20.47	20.91	19.49	20.50	19.92	20.91	21.35
	6H	19.36	20.23	19.81	20.67	21.13	19.91	20.78	20.36	21.22	21.68
	8H	19.41	20.23	19.88	20.68	21.14	20.04	20.85	20.50	21.30	21.76
	12H	19.44	20.17	19.92	20.65	21.12	20.14	20.87	20.62	21.35	21.82
8H	4H	19.28	20.10	19.74	20.54	21.01	19.68	20.49	20.14	20.94	21.40
	6H	19.65	20.33	20.15	20.82	21.29	20.18	20.85	20.67	21.34	21.82
	8H	19.74	20.35	20.25	20.86	21.34	20.36	20.97	20.87	21.48	21.96
	12H	19.80	20.33	20.30	20.82	21.39	20.53	21.06	21.03	21.55	22.12
12H	4H	19.29	20.03	19.78	20.50	20.97	19.68	20.41	20.16	20.89	21.36
	6H	19.68	20.28	20.19	20.79	21.28	20.18	20.79	20.69	21.30	21.78
	8H	19.81	20.34	20.31	20.83	21.40	20.41	20.95	20.92	21.44	22.00