

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: P1498275

Luminaire Tested: MAE-G-2-120-1STD-LO-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498275
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-LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

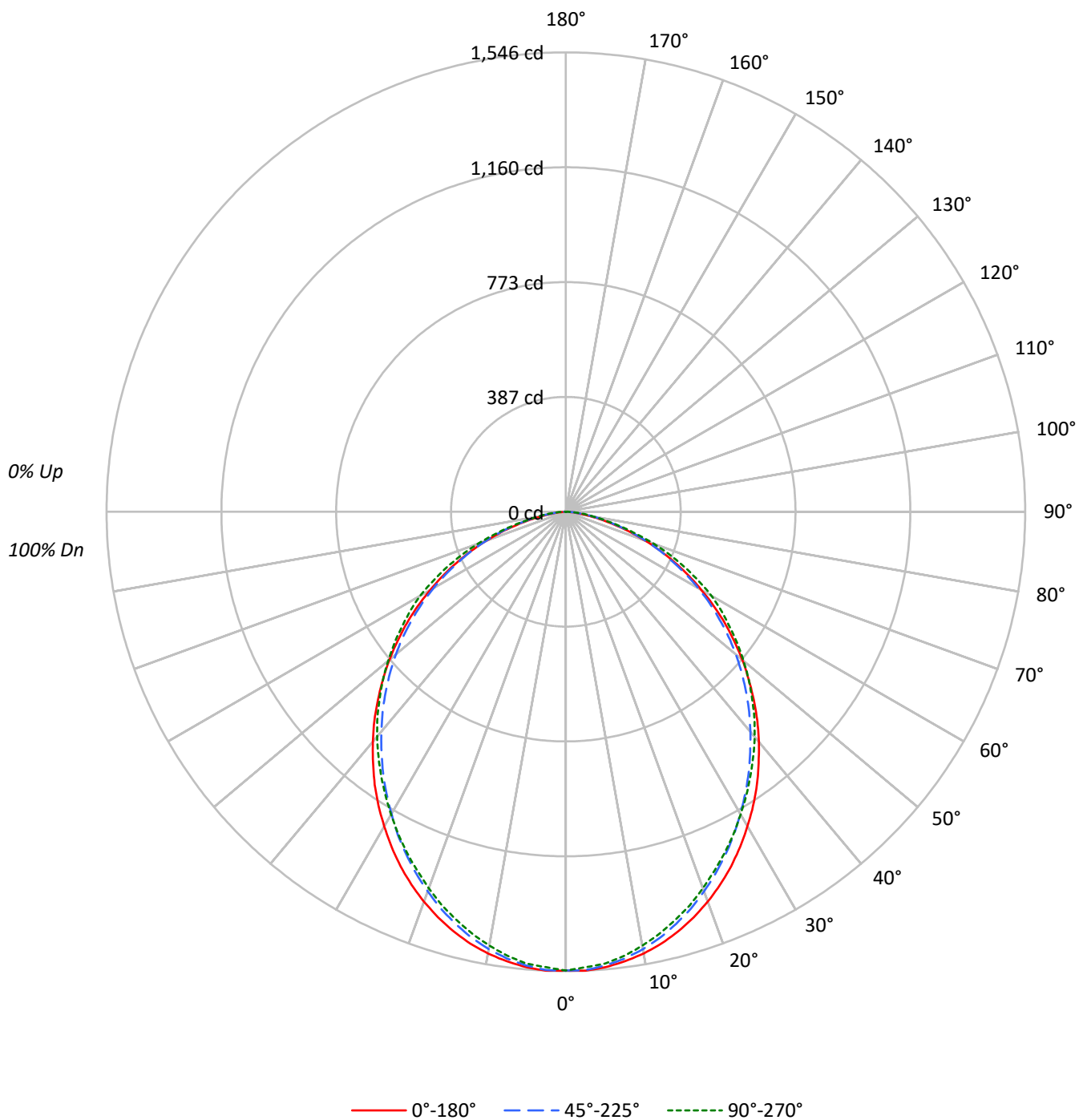
Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	57		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°	4154	4154	4154
5°	4155	4140	4123
10°	4125	4084	4051
15°	4072	3999	3962
20°	3999	3893	3861
25°	3908	3777	3758
30°	3799	3647	3655
35°	3684	3524	3560
40°	3551	3394	3472
45°	3403	3265	3372
50°	3246	3126	3268
55°	3063	2962	3155
60°	2839	2773	3048
65°	2580	2522	2809
70°	2235	2253	2467
75°	1779	1890	1967
80°	1226	1423	1505
85°	682	1059	1355

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3403 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.9
10°-20°	404.9	10.9
20°-30°	589.5	15.9
30°-40°	679.8	18.3
40°-50°	674.2	18.2
50°-60°	578.1	15.6
60°-70°	406.3	10.9
70°-80°	193.6	5.2
80°-90°	40.6	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°	1139.4	30.7
0°-40°	1819.3	49.0
0°-60°	3071.6	82.7
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1538	1537	1533	1523	1526	146
15°	1462	1454	1435	1419	1422	412
25°	1316	1299	1272	1260	1266	606
35°	1121	1099	1073	1074	1084	701
45°	894	874	858	874	886	690
55°	653	635	631	656	672	583
65°	405	391	396	428	441	401
75°	171	165	182	191	189	185
85°	22	27	34	41	44	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1545.6	1546.8	1543.8	1532.7	1534.2
5°	1538.3	1536.9	1532.7	1522.9	1526.2
7.5°	1525.9	1524.0	1516.5	1505.1	1507.3
10°	1509.5	1505.7	1494.7	1480.6	1482.7
12.5°	1488.3	1483.3	1468.1	1452.3	1454.8
15°	1461.7	1454.4	1435.3	1419.3	1422.0
17.5°	1431.0	1423.2	1400.2	1383.0	1388.2
20°	1396.3	1385.5	1359.3	1343.5	1348.3
22.5°	1358.2	1344.5	1317.3	1302.6	1306.9
25°	1316.3	1299.4	1272.1	1260.5	1265.6
27.5°	1270.9	1252.6	1225.1	1214.9	1222.1
30°	1222.6	1203.1	1173.7	1168.6	1176.4
32.5°	1173.3	1152.6	1123.8	1122.6	1130.5
35°	1121.4	1098.6	1072.8	1074.1	1083.8
37.5°	1065.8	1044.2	1019.0	1027.1	1036.4
40°	1010.9	988.6	966.2	977.7	988.3
42.5°	953.9	932.5	912.7	926.4	938.8
45°	894.2	874.3	857.9	874.1	886.1
47.5°	834.6	814.6	802.6	820.7	834.6
50°	775.3	756.5	746.7	767.3	780.7
52.5°	713.4	695.3	690.1	711.5	727.8
55°	652.9	634.6	631.3	655.6	672.4
57.5°	590.8	576.5	574.0	601.0	621.5
60°	527.5	513.2	515.2	547.5	566.3
62.5°	465.9	451.7	454.8	490.9	503.6
65°	405.2	391.0	396.1	427.5	441.2
67.5°	345.4	332.1	342.3	371.1	379.9
70°	284.1	272.4	286.4	310.0	313.5
72.5°	226.9	216.8	234.1	249.3	249.3
75°	171.1	165.3	181.8	190.6	189.2
77.5°	122.4	119.3	133.7	138.7	137.6
80°	79.1	81.0	91.8	95.2	97.1
82.5°	46.0	49.8	58.1	66.8	68.9
85°	22.1	26.6	34.3	41.2	43.9
87.5°	7.7	10.7	14.2	15.7	15.3
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	15.73	17.31	16.09	17.62	17.94	16.04	17.62	16.40	17.94	18.25
	3H	17.17	18.59	17.54	18.92	19.28	17.64	19.07	18.02	19.39	19.75
	4H	17.59	18.93	17.99	19.28	19.65	18.11	19.44	18.51	19.79	20.17
	6H	17.80	19.04	18.22	19.41	19.80	18.36	19.60	18.77	19.97	20.36
	8H	17.84	19.02	18.26	19.41	19.81	18.43	19.61	18.86	20.00	20.40
	12H	17.84	18.97	18.27	19.35	19.78	18.48	19.61	18.91	19.99	20.42
4H	2H	16.26	17.59	16.66	17.94	18.32	16.51	17.85	16.91	18.20	18.57
	3H	17.88	18.99	18.29	19.39	19.79	18.32	19.43	18.73	19.83	20.23
	4H	18.39	19.39	18.82	19.80	20.24	18.89	19.89	19.32	20.31	20.74
	6H	18.68	19.55	19.13	19.99	20.45	19.24	20.11	19.70	20.55	21.01
	8H	18.73	19.55	19.19	19.99	20.46	19.34	20.16	19.80	20.60	21.07
	12H	18.75	19.48	19.23	19.96	20.43	19.42	20.15	19.90	20.63	21.10
8H	4H	18.60	19.42	19.07	19.86	20.33	19.06	19.87	19.52	20.32	20.78
	6H	18.96	19.63	19.46	20.12	20.60	19.48	20.16	19.98	20.65	21.12
	8H	19.04	19.65	19.56	20.16	20.64	19.63	20.24	20.15	20.75	21.23
	12H	19.09	19.63	19.60	20.12	20.68	19.77	20.30	20.28	20.79	21.36
12H	4H	18.61	19.34	19.09	19.82	20.29	19.06	19.79	19.54	20.26	20.73
	6H	18.98	19.58	19.49	20.09	20.58	19.48	20.09	20.00	20.60	21.09
	8H	19.10	19.63	19.61	20.12	20.69	19.68	20.21	20.19	20.70	21.26