

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: P1498938

Luminaire Tested: MAE-G-4-120-1HI-LO-30-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498938
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-4-120-1HI-LO-30-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

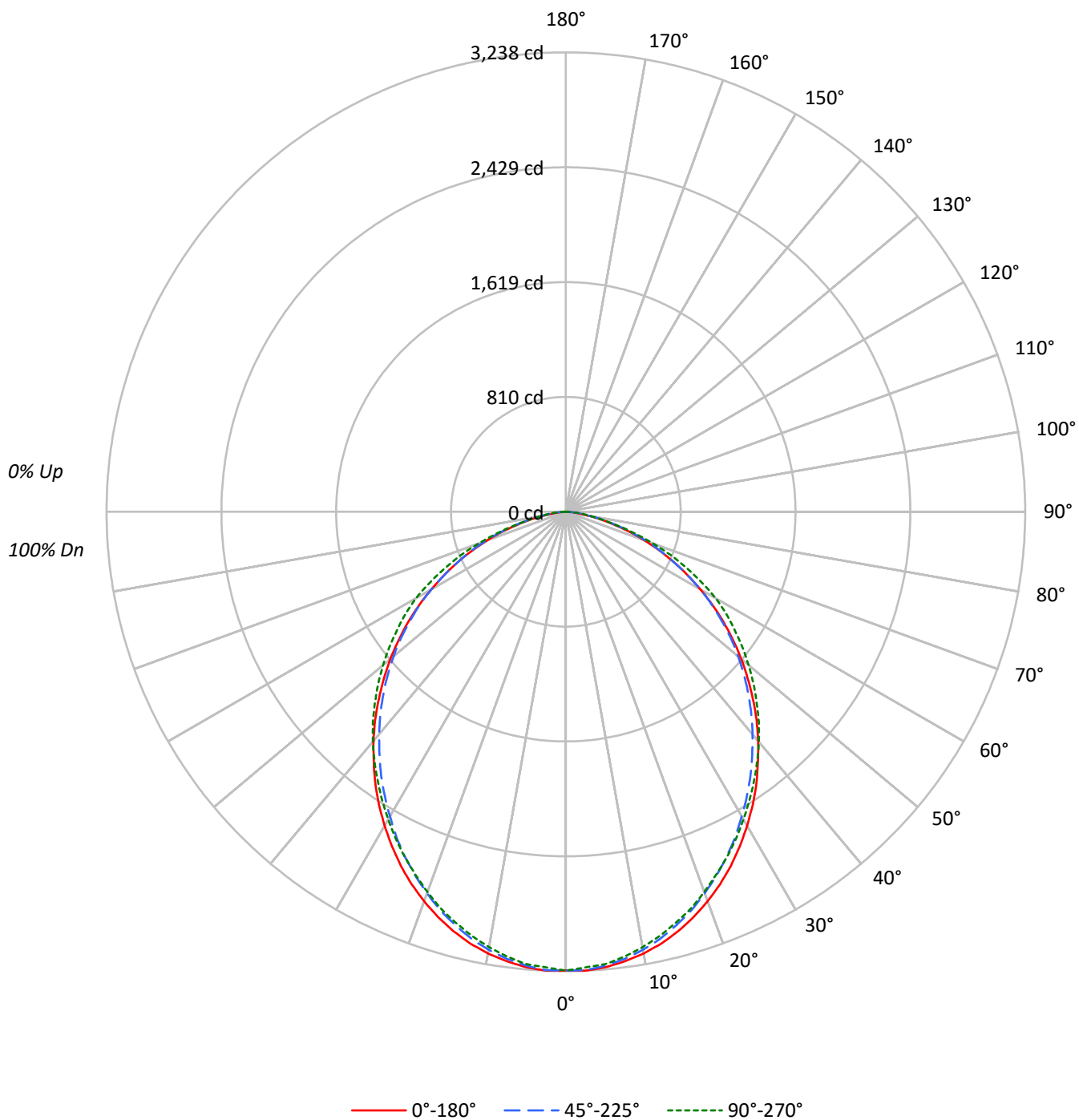
Lumens per Lamp: N/A
Luminaire Lumens: 7825.1 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	76	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4351	4351	4351
5°	4352	4337	4322
10°	4319	4283	4257
15°	4262	4200	4176
20°	4183	4097	4084
25°	4086	3983	3987
30°	3969	3852	3890
35°	3846	3728	3800
40°	3705	3596	3717
45°	3547	3463	3620
50°	3380	3320	3520
55°	3187	3148	3404
60°	2947	2948	3286
65°	2673	2675	2996
70°	2312	2369	2578
75°	1834	1951	1975
80°	1257	1416	1432
85°	695	1017	1266

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3620 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	3.9
10°-20°	850.9	10.9
20°-30°	1242.4	15.9
30°-40°	1436.7	18.4
40°-50°	1428.4	18.3
50°-60°	1227.0	15.7
60°-70°	858.3	11.0
70°-80°	398.3	5.1
80°-90°	79.3	1.0
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°	2397.2	30.6
0°-40°	3833.8	49.0
0°-60°	6489.2	82.9
0°-90°	7825.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7825.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3234	3234	3234	3234	3234	
5°	3222	3219	3211	3194	3200	306
15°	3060	3047	3015	2991	2998	862
25°	2752	2724	2683	2671	2686	1266
35°	2342	2304	2270	2287	2314	1463
45°	1864	1834	1820	1870	1903	1438
55°	1358	1331	1342	1408	1451	1213
65°	840	819	840	910	941	831
75°	353	345	375	387	380	381
85°	45	53	66	78	82	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3233.7	3233.7	3233.7	3233.7	3233.7
2.5°	3237.7	3239.8	3233.7	3211.7	3214.0
5°	3222.0	3218.9	3211.3	3193.5	3200.1
7.5°	3195.8	3192.3	3178.7	3158.7	3163.3
10°	3161.0	3154.1	3134.8	3110.5	3115.6
12.5°	3116.2	3108.0	3081.5	3055.6	3061.9
15°	3059.8	3047.3	3015.2	2990.7	2998.1
17.5°	2994.8	2982.5	2944.7	2918.6	2931.8
20°	2921.3	2903.6	2861.2	2838.9	2852.1
22.5°	2841.0	2818.0	2775.1	2755.9	2768.8
25°	2752.4	2723.8	2682.6	2670.9	2685.7
27.5°	2656.4	2625.8	2586.0	2577.6	2597.6
30°	2554.7	2522.2	2479.1	2482.3	2504.1
32.5°	2450.7	2416.9	2375.6	2387.8	2409.6
35°	2341.5	2304.2	2269.9	2287.4	2313.7
37.5°	2224.5	2189.8	2157.2	2190.4	2215.8
40°	2109.4	2073.2	2047.2	2087.5	2116.2
42.5°	1989.6	1956.0	1935.2	1980.2	2013.4
45°	1864.0	1834.2	1820.1	1870.4	1902.7
47.5°	1738.9	1708.6	1703.8	1758.0	1794.3
50°	1614.6	1586.8	1586.0	1645.4	1681.7
52.5°	1485.4	1458.4	1466.5	1527.3	1569.5
55°	1358.4	1330.8	1341.8	1408.4	1451.0
57.5°	1228.0	1209.0	1220.2	1291.2	1341.6
60°	1095.2	1075.6	1095.6	1176.2	1221.0
62.5°	966.6	946.6	965.9	1052.3	1080.2
65°	839.6	818.9	840.2	910.3	940.9
67.5°	715.6	695.2	724.4	785.6	803.9
70°	587.7	570.2	602.3	650.2	655.4
72.5°	468.8	453.2	488.9	515.7	512.5
75°	352.8	344.6	375.3	386.7	379.9
77.5°	251.9	247.5	271.8	274.4	268.1
80°	162.2	166.1	182.7	182.5	184.8
82.5°	94.0	100.8	112.7	127.4	129.8
85°	45.0	53.2	65.9	77.8	82.0
87.5°	15.9	21.3	27.0	29.7	29.0
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	15.86	17.45	16.23	17.76	18.07	16.36	17.94	16.73	18.26	18.57
	3H	17.29	18.71	17.67	19.04	19.40	17.91	19.33	18.29	19.66	20.02
	4H	17.70	19.04	18.10	19.39	19.77	18.33	19.67	18.73	20.01	20.39
	6H	17.91	19.15	18.32	19.51	19.90	18.54	19.77	18.95	20.14	20.53
	8H	17.94	19.12	18.37	19.51	19.91	18.59	19.77	19.01	20.15	20.55
	12H	17.94	19.07	18.37	19.45	19.88	18.62	19.75	19.05	20.13	20.56
4H	2H	16.41	17.75	16.81	18.09	18.47	16.82	18.15	17.22	18.50	18.88
	3H	18.02	19.13	18.43	19.53	19.93	18.56	19.68	18.97	20.07	20.47
	4H	18.51	19.51	18.95	19.93	20.37	19.08	20.09	19.52	20.50	20.94
	6H	18.80	19.67	19.25	20.11	20.57	19.38	20.25	19.83	20.69	21.15
	8H	18.85	19.66	19.31	20.10	20.57	19.45	20.27	19.92	20.71	21.18
	12H	18.86	19.59	19.35	20.07	20.54	19.51	20.24	20.00	20.72	21.19
8H	4H	18.72	19.54	19.18	19.98	20.45	19.24	20.06	19.70	20.50	20.96
	6H	19.07	19.74	19.56	20.23	20.70	19.60	20.27	20.09	20.76	21.23
	8H	19.14	19.75	19.66	20.25	20.74	19.71	20.32	20.23	20.82	21.31
	12H	19.19	19.72	19.70	20.21	20.77	19.82	20.35	20.33	20.84	21.41
12H	4H	18.73	19.45	19.21	19.93	20.40	19.24	19.97	19.72	20.44	20.91
	6H	19.07	19.68	19.59	20.19	20.67	19.59	20.20	20.11	20.70	21.19
	8H	19.19	19.72	19.70	20.21	20.77	19.75	20.28	20.26	20.77	21.34