

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: P1498872

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498872
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-STD-35-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

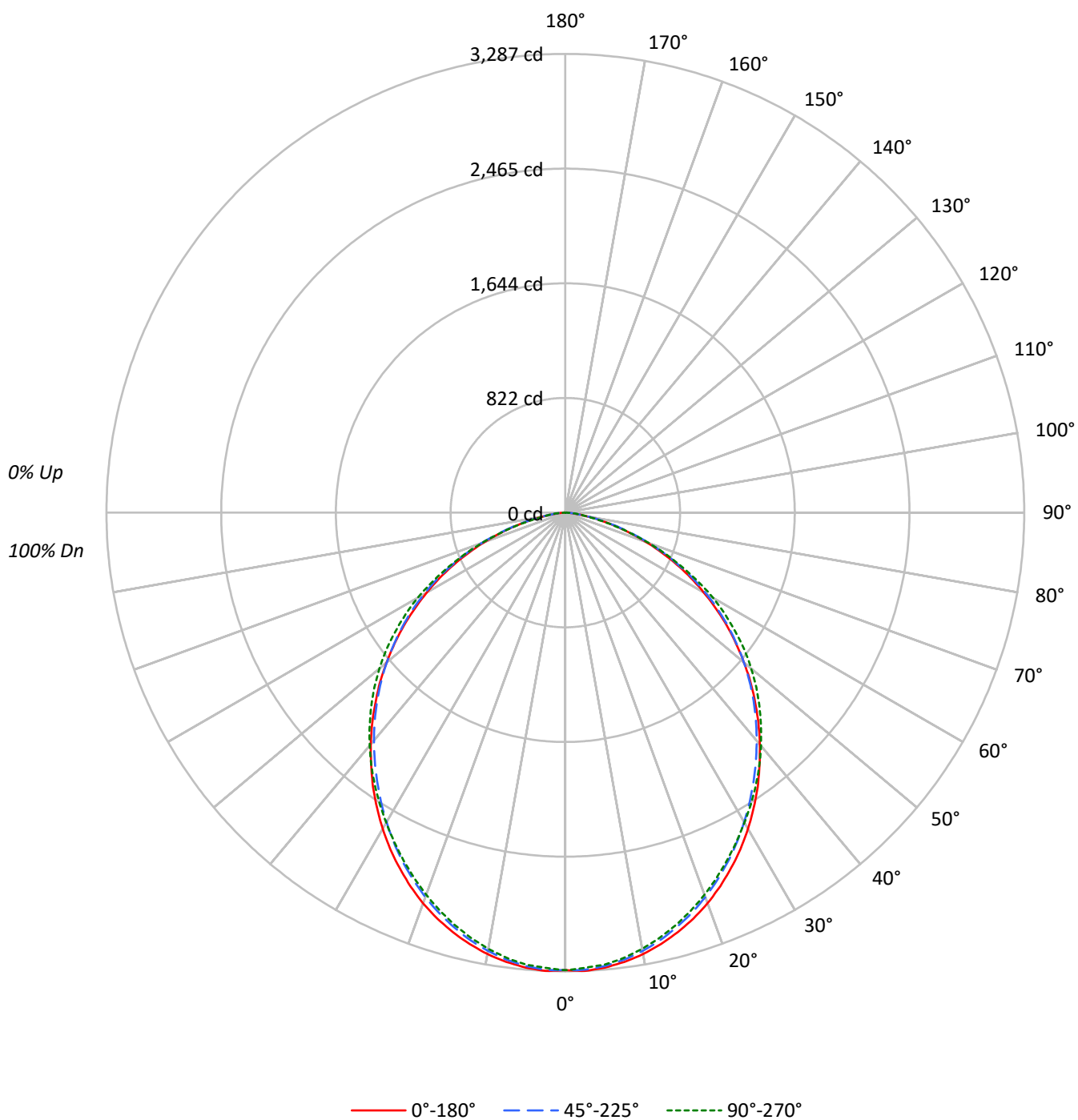
Lumens per Lamp: N/A
Luminaire Lumens: 8058.0 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	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	67	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8823	8823	8823
5°	8839	8810	8780
10°	8777	8717	8671
15°	8671	8571	8522
20°	8529	8395	8344
25°	8343	8190	8151
30°	8130	7957	7972
35°	7888	7720	7819
40°	7614	7490	7659
45°	7318	7255	7483
50°	6993	6990	7275
55°	6627	6683	6975
60°	6173	6291	6579
65°	5608	5764	5896
70°	4832	5015	4989
75°	3842	3996	3755
80°	2590	2639	2479
85°	1334	1673	2047

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7483 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.6	3.8
10°-20°	866.9	10.8
20°-30°	1272.4	15.8
30°-40°	1480.6	18.4
40°-50°	1483.1	18.4
50°-60°	1281.2	15.9
60°-70°	892.2	11.1
70°-80°	402.4	5.0
80°-90°	70.6	0.9
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°	2447.9	30.4
0°-40°	3928.5	48.8
0°-60°	6692.9	83.1
0°-90°	8058.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8058.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3279	3279	3279	3279	3279	
5°	3272	3258	3261	3246	3250	310
15°	3113	3092	3077	3054	3059	877
25°	2810	2784	2758	2735	2745	1294
35°	2401	2369	2350	2358	2380	1500
45°	1923	1899	1906	1942	1966	1484
55°	1412	1395	1424	1470	1487	1261
65°	881	876	905	922	926	871
75°	370	372	384	371	361	397
85°	43	47	54	63	66	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3278.7	3278.7	3278.7	3278.7	3278.7
2.5°	3286.8	3273.5	3278.7	3266.5	3264.4
5°	3272.1	3258.3	3261.4	3245.8	3250.3
7.5°	3246.7	3232.0	3231.0	3213.9	3217.9
10°	3212.2	3194.8	3190.0	3170.3	3173.4
12.5°	3166.4	3148.3	3138.7	3116.0	3121.1
15°	3112.6	3092.4	3076.7	3054.2	3058.8
17.5°	3050.1	3027.8	3008.9	2982.7	2990.2
20°	2978.5	2954.2	2931.7	2903.9	2913.8
22.5°	2898.3	2872.6	2846.9	2821.8	2831.5
25°	2810.0	2783.7	2758.2	2735.1	2745.3
27.5°	2717.0	2687.8	2661.9	2644.7	2656.0
30°	2616.4	2586.1	2560.8	2549.3	2565.6
32.5°	2510.2	2480.1	2457.1	2455.5	2474.3
35°	2401.2	2369.3	2350.1	2358.4	2380.3
37.5°	2283.9	2256.7	2242.4	2260.6	2282.9
40°	2167.6	2139.4	2132.3	2156.9	2180.4
42.5°	2047.3	2022.1	2020.6	2052.8	2074.7
45°	1922.9	1899.2	1906.3	1942.2	1966.2
47.5°	1800.4	1776.3	1790.0	1829.5	1855.4
50°	1670.4	1650.4	1669.6	1714.1	1737.7
52.5°	1541.1	1521.8	1547.8	1594.9	1617.8
55°	1412.5	1394.9	1424.5	1470.3	1486.8
57.5°	1279.4	1268.6	1299.4	1339.8	1357.2
60°	1147.0	1137.5	1168.9	1206.7	1222.5
62.5°	1014.3	1008.1	1038.4	1069.3	1074.9
65°	880.8	876.5	905.2	922.3	925.9
67.5°	745.9	745.6	772.1	781.6	781.6
70°	614.2	612.4	637.4	640.7	634.1
72.5°	486.3	488.5	505.2	502.6	491.7
75°	369.5	371.8	384.3	371.4	361.2
77.5°	260.8	263.0	269.4	255.0	248.9
80°	167.1	172.1	170.3	164.1	160.0
82.5°	93.4	98.9	97.3	105.2	108.8
85°	43.2	46.6	54.2	62.7	66.3
87.5°	14.7	17.7	22.3	23.8	22.2
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	18.50	20.08	18.86	20.39	20.71	18.88	20.47	19.25	20.78	21.10
	3H	19.95	21.37	20.32	21.70	22.06	20.30	21.73	20.68	22.05	22.41
	4H	20.36	21.70	20.76	22.05	22.43	20.67	22.01	21.07	22.36	22.74
	6H	20.57	21.80	20.98	22.17	22.56	20.84	22.07	21.25	22.44	22.83
	8H	20.59	21.77	21.02	22.16	22.56	20.86	22.04	21.29	22.43	22.83
	12H	20.59	21.72	21.02	22.10	22.53	20.88	22.01	21.31	22.39	22.82
4H	2H	19.08	20.42	19.48	20.77	21.14	19.39	20.73	19.79	21.08	21.46
	3H	20.70	21.82	21.11	22.21	22.61	21.00	22.11	21.41	22.51	22.91
	4H	21.21	22.21	21.64	22.62	23.06	21.46	22.46	21.89	22.87	23.31
	6H	21.48	22.35	21.94	22.80	23.25	21.69	22.56	22.14	23.00	23.46
	8H	21.52	22.34	21.99	22.78	23.25	21.73	22.54	22.19	22.99	23.45
	12H	21.54	22.26	22.02	22.74	23.21	21.76	22.49	22.25	22.97	23.44
8H	4H	21.39	22.20	21.85	22.65	23.11	21.62	22.43	22.08	22.87	23.34
	6H	21.72	22.39	22.22	22.88	23.36	21.90	22.57	22.39	23.06	23.53
	8H	21.79	22.39	22.30	22.89	23.38	21.97	22.57	22.48	23.08	23.57
	12H	21.82	22.35	22.33	22.84	23.40	22.03	22.56	22.54	23.05	23.62
12H	4H	21.39	22.11	21.87	22.59	23.06	21.61	22.34	22.10	22.82	23.29
	6H	21.71	22.32	22.23	22.82	23.31	21.89	22.49	22.40	23.00	23.49
	8H	21.81	22.34	22.32	22.83	23.40	22.00	22.53	22.50	23.02	23.58