

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: P1498614

Luminaire Tested: MAE-G-2-120-3HI-40-90

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498614
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-2-120-3HI-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

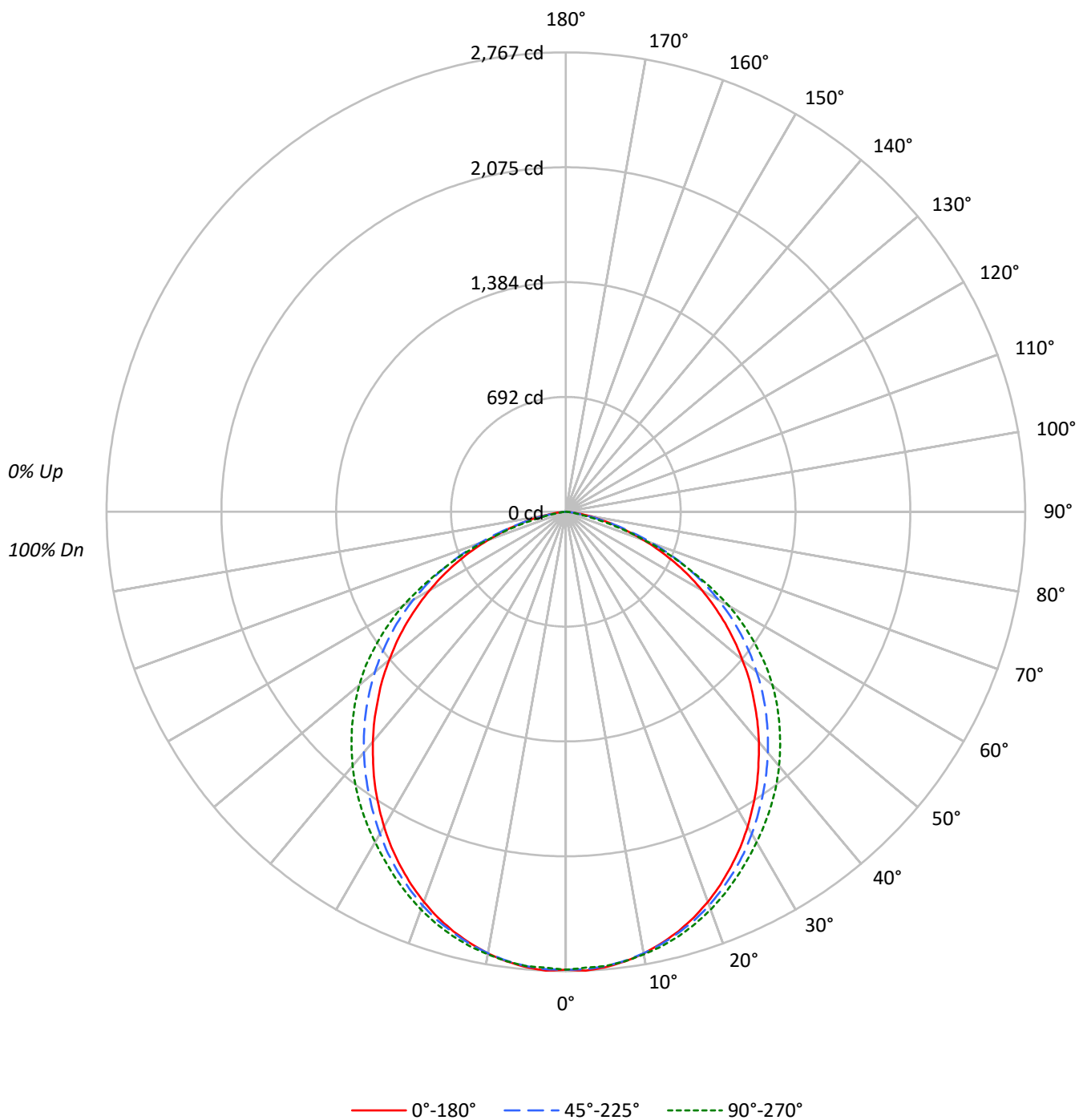
Lumens per Lamp: N/A
Luminaire Lumens: 6990.0 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7421	7421	7421
5°	7438	7422	7419
10°	7383	7379	7397
15°	7289	7312	7365
20°	7162	7227	7302
25°	6996	7107	7219
30°	6806	6961	7143
35°	6592	6802	7089
40°	6353	6648	7018
45°	6094	6484	6928
50°	5811	6284	6805
55°	5499	6040	6543
60°	5103	5707	6105
65°	4608	5205	5230
70°	3933	4370	4064
75°	3089	3189	2499
80°	2016	1640	967
85°	966	648	513

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6928 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.5	3.7
10°-20°	739.6	10.6
20°-30°	1100.0	15.7
30°-40°	1296.2	18.5
40°-50°	1314.2	18.8
50°-60°	1145.2	16.4
60°-70°	783.2	11.2
70°-80°	314.6	4.5
80°-90°	36.5	0.5
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°	2100.1	30.0
0°-40°	3396.3	48.6
0°-60°	5855.7	83.8
0°-90°	6990.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6990.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2758	2758	2758	2758	2758	
5°	2753	2737	2748	2744	2746	261
15°	2616	2605	2625	2635	2644	737
25°	2356	2357	2394	2411	2431	1085
35°	2007	2016	2071	2121	2158	1254
45°	1601	1623	1704	1780	1820	1236
55°	1172	1197	1288	1368	1395	1046
65°	724	756	818	824	821	716
75°	297	317	307	263	240	319
85°	31	28	21	18	17	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2757.9	2757.9	2757.9	2757.9	2757.9
2.5°	2766.8	2748.3	2757.9	2756.0	2748.9
5°	2753.4	2736.8	2747.6	2744.5	2746.4
7.5°	2731.7	2716.5	2727.9	2727.3	2730.4
10°	2701.8	2686.5	2700.6	2703.1	2706.9
12.5°	2662.2	2649.5	2666.7	2671.8	2679.4
15°	2616.3	2604.9	2624.6	2635.4	2643.8
17.5°	2562.7	2553.1	2578.7	2588.9	2600.4
20°	2500.9	2493.9	2523.8	2533.4	2550.0
22.5°	2432.1	2428.3	2459.4	2474.1	2493.2
25°	2356.1	2356.8	2393.7	2411.1	2431.4
27.5°	2276.5	2277.7	2319.9	2344.0	2365.7
30°	2190.4	2194.2	2240.1	2270.1	2298.7
32.5°	2099.2	2106.8	2156.5	2197.4	2229.3
35°	2006.7	2015.6	2070.6	2121.4	2157.8
37.5°	1906.6	1921.3	1983.2	2043.8	2081.3
40°	1808.4	1823.1	1892.6	1959.5	1997.8
42.5°	1707.1	1725.5	1799.5	1874.1	1911.0
45°	1601.2	1622.8	1703.8	1780.4	1820.5
47.5°	1499.7	1518.9	1604.3	1684.1	1725.5
50°	1388.1	1412.4	1501.0	1584.6	1625.5
52.5°	1281.7	1304.0	1395.2	1480.7	1517.6
55°	1172.1	1196.9	1287.5	1368.4	1394.6
57.5°	1059.7	1089.8	1177.1	1244.8	1269.6
60°	948.2	978.1	1060.4	1116.0	1134.4
62.5°	837.2	869.2	941.2	978.1	978.1
65°	723.7	756.3	817.5	823.8	821.3
67.5°	610.3	642.8	689.3	677.8	670.2
70°	499.9	528.0	555.4	534.3	516.5
72.5°	392.8	419.6	424.1	393.5	371.1
75°	297.1	317.0	306.7	263.4	240.4
77.5°	207.2	218.7	197.0	153.1	134.6
80°	130.1	135.2	105.8	74.6	62.4
82.5°	70.2	70.8	45.9	37.6	35.1
85°	31.3	28.0	21.0	18.5	16.6
87.5°	10.9	9.6	7.6	7.0	5.8
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	17.89	19.47	18.26	19.79	20.10	18.87	20.46	19.24	20.77	21.09
	3H	19.30	20.72	19.68	21.05	21.41	20.08	21.50	20.45	21.83	22.19
	4H	19.69	21.03	20.09	21.38	21.75	20.29	21.63	20.69	21.98	22.35
	6H	19.87	21.10	20.28	21.47	21.86	20.31	21.54	20.72	21.91	22.30
	8H	19.88	21.06	20.31	21.45	21.85	20.29	21.46	20.71	21.85	22.25
	12H	19.87	21.00	20.30	21.38	21.81	20.26	21.39	20.69	21.77	22.20
4H	2H	18.56	19.90	18.96	20.24	20.62	19.35	20.69	19.75	21.03	21.41
	3H	20.13	21.24	20.54	21.63	22.03	20.72	21.83	21.13	22.23	22.63
	4H	20.61	21.60	21.04	22.01	22.45	20.99	21.99	21.43	22.40	22.84
	6H	20.85	21.71	21.30	22.15	22.61	21.04	21.91	21.50	22.35	22.81
	8H	20.87	21.67	21.33	22.12	22.58	21.02	21.82	21.48	22.27	22.73
	12H	20.87	21.59	21.35	22.07	22.54	21.00	21.72	21.48	22.20	22.67
8H	4H	20.75	21.56	21.21	22.00	22.47	21.11	21.92	21.57	22.36	22.83
	6H	21.03	21.69	21.52	22.18	22.66	21.17	21.83	21.67	22.32	22.80
	8H	21.07	21.66	21.58	22.17	22.65	21.15	21.74	21.66	22.25	22.74
	12H	21.08	21.60	21.59	22.09	22.66	21.13	21.66	21.64	22.15	22.71
12H	4H	20.73	21.45	21.22	21.93	22.40	21.10	21.82	21.58	22.30	22.77
	6H	21.00	21.59	21.51	22.10	22.59	21.15	21.74	21.66	22.25	22.74
	8H	21.06	21.58	21.57	22.08	22.64	21.15	21.67	21.66	22.16	22.73