

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: P1498398

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-STD-40-90
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

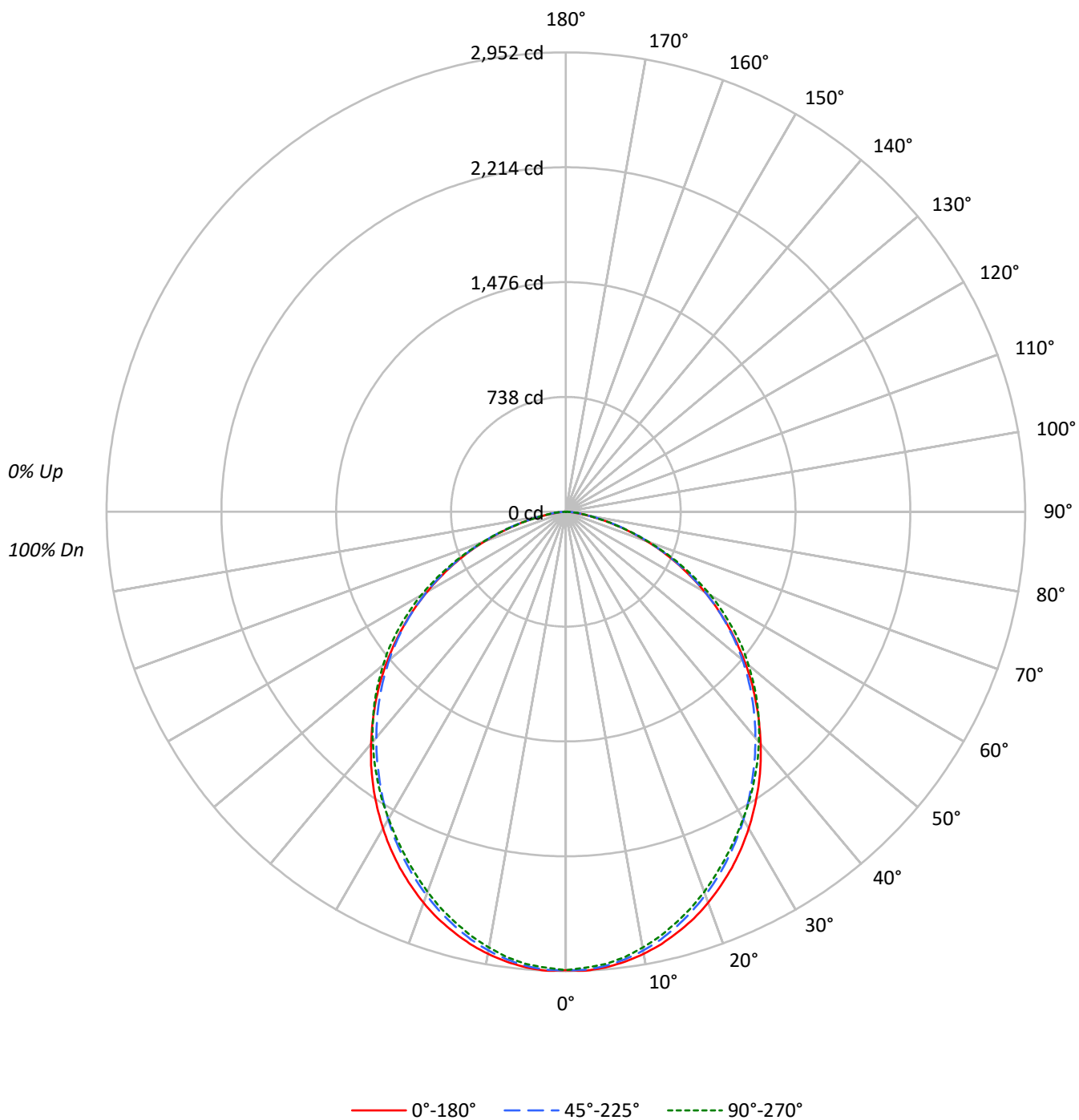
Lumens per Lamp: N/A
Luminaire Lumens: 7190.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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	43	41		
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7927	7927	7927
5°	7939	7914	7881
10°	7883	7824	7770
15°	7785	7682	7617
20°	7657	7507	7443
25°	7496	7309	7250
30°	7304	7094	7078
35°	7088	6869	6930
40°	6840	6658	6779
45°	6575	6440	6620
50°	6285	6203	6416
55°	5952	5920	6153
60°	5551	5567	5793
65°	5044	5091	5226
70°	4353	4428	4464
75°	3464	3559	3472
80°	2340	2428	2383
85°	1195	1587	2004

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6620 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	3.9
10°-20°	776.8	10.8
20°-30°	1137.2	15.8
30°-40°	1320.5	18.4
40°-50°	1319.7	18.4
50°-60°	1137.7	15.8
60°-70°	792.5	11.0
70°-80°	362.3	5.0
80°-90°	66.1	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°	2191.2	30.5
0°-40°	3511.7	48.8
0°-60°	5969.1	83.0
0°-90°	7190.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7190.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2946	2946	2946	2946	2946	
5°	2939	2928	2930	2914	2917	279
15°	2794	2776	2757	2732	2734	788
25°	2525	2498	2462	2437	2442	1162
35°	2158	2124	2091	2094	2110	1348
45°	1728	1699	1692	1720	1740	1333
55°	1269	1247	1262	1297	1311	1133
65°	792	784	800	813	821	784
75°	333	331	342	336	334	359
85°	39	43	51	61	65	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2945.8	2945.8	2945.8	2945.8	2945.8
2.5°	2951.9	2941.6	2945.8	2933.7	2932.3
5°	2938.9	2927.8	2929.8	2913.8	2917.4
7.5°	2916.3	2903.7	2901.6	2883.8	2887.4
10°	2884.9	2869.7	2863.2	2841.5	2843.5
12.5°	2844.6	2827.7	2815.8	2791.0	2794.4
15°	2794.5	2775.7	2757.4	2731.8	2734.0
17.5°	2739.4	2719.3	2692.9	2666.0	2671.3
20°	2674.0	2652.4	2621.3	2593.2	2599.1
22.5°	2601.7	2577.3	2545.2	2517.6	2521.3
25°	2524.6	2497.9	2461.8	2437.2	2441.7
27.5°	2440.7	2411.0	2374.7	2353.1	2360.2
30°	2350.5	2319.6	2283.1	2268.3	2277.9
32.5°	2255.6	2224.2	2189.1	2183.5	2197.4
35°	2157.6	2124.1	2091.0	2094.2	2109.6
37.5°	2055.5	2022.7	1993.9	2005.7	2021.8
40°	1947.2	1917.0	1895.2	1912.6	1929.9
42.5°	1838.6	1809.7	1794.9	1818.4	1837.0
45°	1727.7	1699.0	1692.2	1719.7	1739.6
47.5°	1617.6	1588.5	1588.8	1619.8	1637.7
50°	1501.3	1476.0	1481.7	1514.8	1532.5
52.5°	1384.5	1361.1	1372.8	1408.1	1429.1
55°	1268.6	1247.3	1261.9	1296.6	1311.4
57.5°	1149.8	1133.6	1150.2	1180.7	1195.1
60°	1031.4	1016.7	1034.3	1062.7	1076.3
62.5°	911.8	899.4	918.0	940.8	949.0
65°	792.2	783.8	799.5	812.6	820.8
67.5°	674.9	666.6	682.1	693.8	696.2
70°	553.2	549.1	562.8	568.5	567.4
72.5°	441.6	437.0	448.5	448.7	445.4
75°	333.2	331.2	342.3	336.3	333.9
77.5°	234.8	237.6	241.7	236.6	234.7
80°	151.0	156.5	156.7	155.7	153.8
82.5°	84.6	89.0	91.4	101.2	105.1
85°	38.7	42.9	51.4	60.9	64.9
87.5°	13.1	16.5	21.5	23.0	21.7
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	18.12	19.70	18.48	20.02	20.33	18.40	19.98	18.77	20.30	20.61
	3H	19.58	21.00	19.96	21.33	21.69	19.84	21.27	20.22	21.60	21.96
	4H	20.00	21.34	20.40	21.69	22.07	20.24	21.58	20.64	21.93	22.30
	6H	20.21	21.44	20.62	21.81	22.20	20.43	21.67	20.84	22.03	22.42
	8H	20.23	21.41	20.66	21.80	22.20	20.47	21.65	20.89	22.04	22.44
	12H	20.23	21.36	20.66	21.74	22.17	20.49	21.62	20.92	22.00	22.43
4H	2H	18.69	20.02	19.08	20.37	20.75	18.91	20.25	19.31	20.60	20.98
	3H	20.32	21.43	20.73	21.83	22.23	20.54	21.65	20.95	22.05	22.45
	4H	20.83	21.83	21.26	22.24	22.68	21.03	22.03	21.46	22.44	22.88
	6H	21.11	21.98	21.57	22.42	22.88	21.29	22.16	21.75	22.60	23.06
	8H	21.15	21.97	21.62	22.41	22.88	21.35	22.16	21.81	22.61	23.07
	12H	21.17	21.89	21.65	22.37	22.84	21.39	22.12	21.88	22.60	23.07
8H	4H	21.01	21.83	21.48	22.27	22.74	21.19	22.01	21.66	22.45	22.92
	6H	21.35	22.02	21.85	22.51	22.99	21.51	22.18	22.01	22.67	23.15
	8H	21.42	22.02	21.93	22.53	23.01	21.60	22.20	22.12	22.71	23.20
	12H	21.45	21.98	21.96	22.47	23.04	21.68	22.21	22.19	22.70	23.27
12H	4H	21.01	21.74	21.49	22.22	22.69	21.19	21.92	21.67	22.39	22.86
	6H	21.35	21.95	21.86	22.46	22.94	21.51	22.11	22.02	22.62	23.11
	8H	21.45	21.98	21.96	22.47	23.03	21.63	22.16	22.14	22.65	23.22