

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: P1498347

Luminaire Tested: MAE-G-2-120-2HI-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498347
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-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

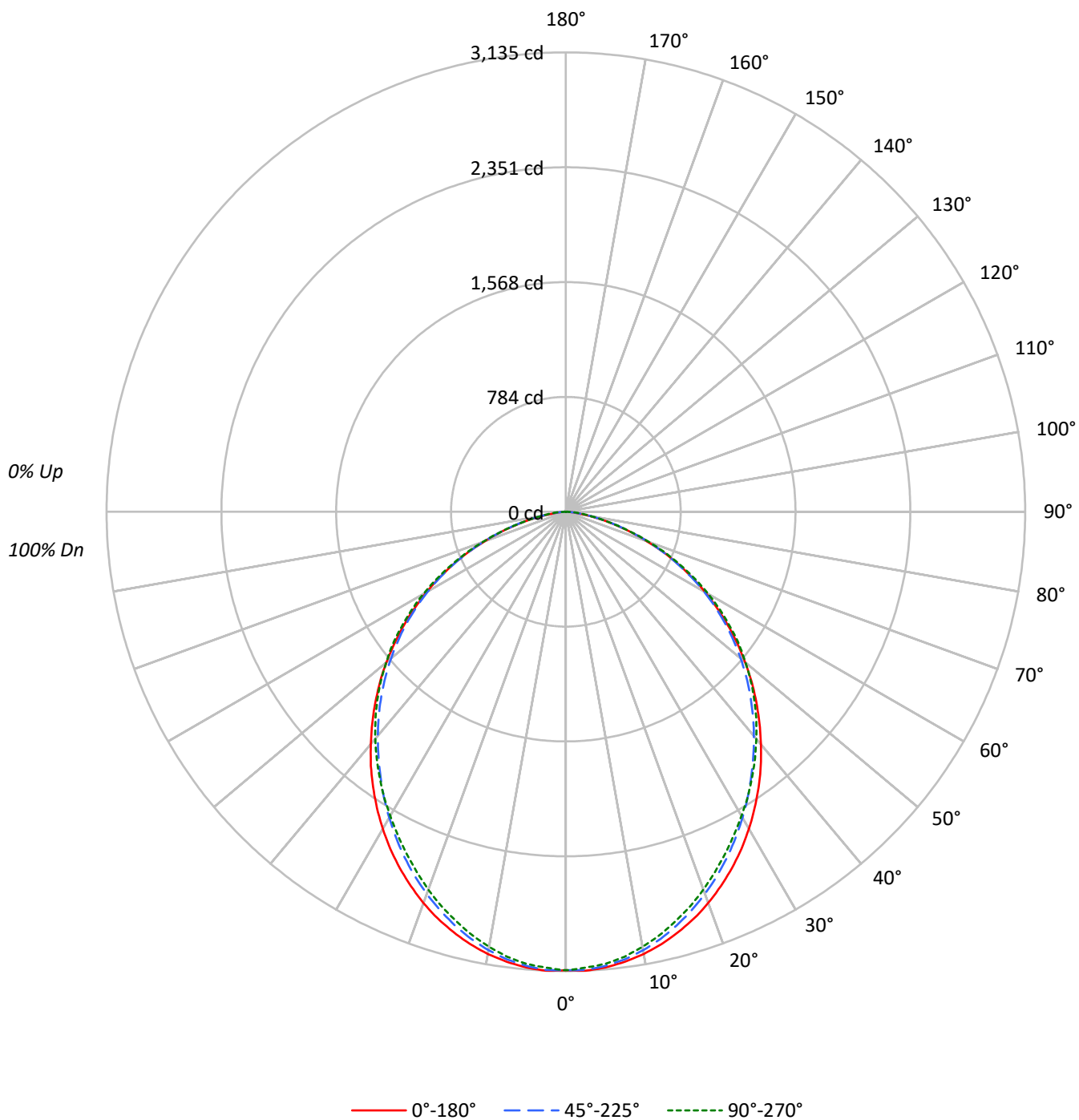
Lumens per Lamp: N/A
Luminaire Lumens: 7603.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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	90	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	75	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8420	8420	8420
5°	8433	8404	8366
10°	8373	8302	8236
15°	8271	8143	8058
20°	8137	7947	7859
25°	7966	7728	7641
30°	7764	7492	7446
35°	7536	7246	7277
40°	7275	7014	7105
45°	6995	6778	6926
50°	6689	6522	6700
55°	6336	6220	6423
60°	5912	5845	6059
65°	5378	5350	5508
70°	4647	4683	4768
75°	3705	3815	3800
80°	2514	2679	2723
85°	1297	1815	2331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6995 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.2	3.9
10°-20°	823.4	10.8
20°-30°	1203.1	15.8
30°-40°	1394.3	18.3
40°-50°	1390.8	18.3
50°-60°	1197.4	15.7
60°-70°	836.6	11.0
70°-80°	389.1	5.1
80°-90°	74.2	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°	2320.7	30.5
0°-40°	3715.0	48.9
0°-60°	6303.2	82.9
0°-90°	7603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3129	3129	3129	3129	3129	
5°	3122	3111	3111	3093	3097	296
15°	2969	2948	2923	2891	2892	837
25°	2683	2651	2603	2570	2574	1235
35°	2294	2253	2206	2202	2215	1434
45°	1838	1801	1781	1802	1820	1418
55°	1350	1321	1326	1356	1369	1206
65°	845	830	840	856	865	836
75°	356	351	367	366	366	383
85°	42	48	59	71	76	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3129.0	3129.0	3129.0	3129.0	3129.0
2.5°	3135.2	3125.5	3129.0	3114.8	3114.3
5°	3121.7	3110.7	3111.3	3092.6	3096.9
7.5°	3097.7	3084.8	3080.5	3059.2	3063.0
10°	3064.4	3048.4	3038.4	3012.3	3014.2
12.5°	3021.8	3003.5	2986.4	2956.2	2959.3
15°	2968.8	2948.0	2922.9	2890.8	2892.4
17.5°	2910.4	2887.4	2852.6	2818.5	2823.3
20°	2841.4	2815.9	2775.0	2739.4	2744.4
22.5°	2764.9	2735.8	2692.9	2657.4	2659.8
25°	2683.0	2650.8	2602.9	2570.4	2573.5
27.5°	2594.2	2558.2	2509.1	2479.8	2485.3
30°	2498.7	2460.9	2411.0	2388.5	2396.4
32.5°	2398.2	2359.2	2310.6	2297.3	2309.4
35°	2294.1	2252.6	2205.8	2201.6	2215.1
37.5°	2185.7	2144.8	2102.1	2106.8	2120.7
40°	2071.1	2032.4	1996.7	2007.4	2022.7
42.5°	1955.8	1918.3	1890.2	1907.0	1923.5
45°	1838.0	1800.8	1781.0	1802.3	1819.9
47.5°	1720.9	1683.6	1671.3	1696.3	1712.1
50°	1597.8	1564.0	1557.9	1585.3	1600.5
52.5°	1473.3	1442.0	1442.8	1472.5	1491.6
55°	1350.5	1321.2	1325.7	1355.5	1369.0
57.5°	1224.2	1200.5	1207.9	1234.7	1248.3
60°	1098.5	1076.5	1086.0	1112.3	1125.8
62.5°	971.4	952.0	964.1	986.7	996.0
65°	844.6	829.5	840.2	855.8	865.1
67.5°	719.5	705.5	718.3	734.0	737.7
70°	590.6	581.1	595.2	605.3	606.0
72.5°	471.6	462.7	477.1	482.2	480.6
75°	356.3	351.3	366.9	365.9	365.5
77.5°	251.5	252.7	262.0	261.8	262.1
80°	162.2	167.8	172.9	176.3	175.7
82.5°	91.3	96.9	103.3	116.2	121.3
85°	42.0	47.5	58.8	70.6	75.5
87.5°	14.2	18.4	24.8	26.6	25.3
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	18.33	19.91	18.69	20.23	20.54	18.52	20.10	18.88	20.41	20.73
	3H	19.80	21.22	20.17	21.55	21.91	20.00	21.42	20.38	21.75	22.11
	4H	20.22	21.56	20.62	21.91	22.29	20.43	21.76	20.82	22.11	22.49
	6H	20.43	21.67	20.84	22.03	22.43	20.64	21.88	21.06	22.25	22.64
	8H	20.46	21.64	20.89	22.03	22.43	20.70	21.87	21.12	22.26	22.66
	12H	20.46	21.59	20.89	21.97	22.40	20.73	21.86	21.16	22.24	22.67
4H	2H	18.88	20.22	19.28	20.57	20.95	19.04	20.37	19.43	20.72	21.10
	3H	20.53	21.64	20.94	22.04	22.44	20.70	21.82	21.11	22.22	22.62
	4H	21.04	22.04	21.47	22.46	22.89	21.22	22.23	21.66	22.64	23.08
	6H	21.33	22.20	21.78	22.64	23.10	21.53	22.40	21.98	22.84	23.30
	8H	21.37	22.19	21.83	22.63	23.10	21.60	22.41	22.06	22.86	23.32
	12H	21.39	22.11	21.87	22.59	23.06	21.66	22.39	22.14	22.86	23.33
8H	4H	21.23	22.05	21.69	22.49	22.95	21.40	22.21	21.86	22.66	23.12
	6H	21.58	22.25	22.07	22.74	23.21	21.76	22.43	22.26	22.92	23.40
	8H	21.65	22.25	22.16	22.76	23.25	21.87	22.47	22.38	22.98	23.47
	12H	21.69	22.22	22.19	22.71	23.27	21.97	22.50	22.48	22.99	23.56
12H	4H	21.23	21.96	21.71	22.44	22.91	21.40	22.12	21.88	22.60	23.07
	6H	21.58	22.18	22.09	22.69	23.18	21.76	22.36	22.27	22.87	23.36
	8H	21.68	22.22	22.19	22.71	23.27	21.91	22.44	22.42	22.93	23.49