

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: P1499235

Luminaire Tested: MAE-G-4-120-2HI-LO-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499235
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-4-120-2HI-LO-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

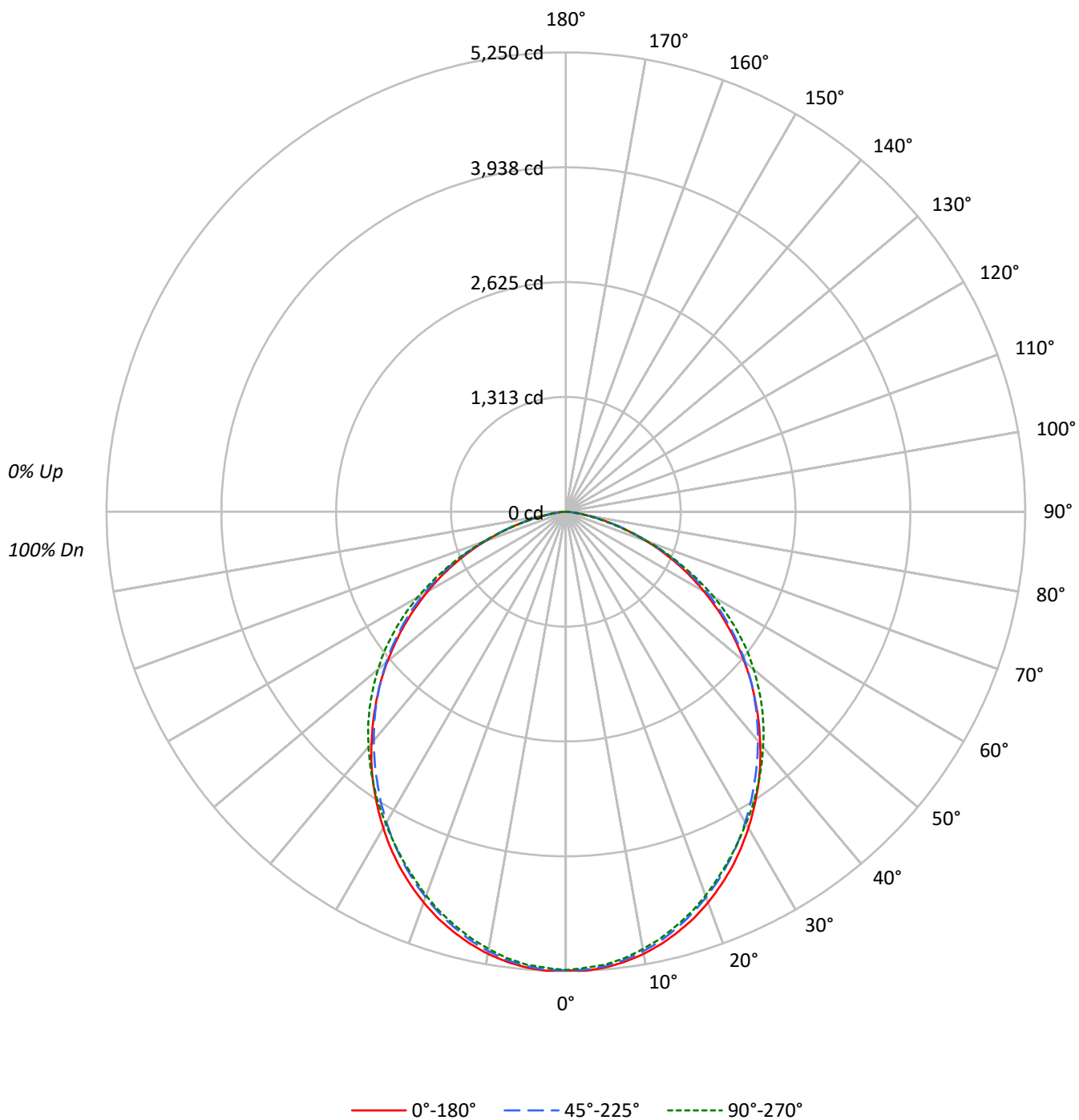
Lumens per Lamp: N/A
Luminaire Lumens: 12882.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
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	93	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	62
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64	59	55	53
5	78	65	56	50	76	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	34		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	41	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7048	7048	7048
5°	7059	7039	7015
10°	7009	6967	6932
15°	6920	6854	6818
20°	6805	6712	6684
25°	6659	6549	6530
30°	6486	6369	6395
35°	6291	6178	6281
40°	6069	5999	6162
45°	5830	5814	6036
50°	5571	5609	5865
55°	5273	5361	5629
60°	4914	5045	5282
65°	4458	4607	4707
70°	3838	3967	3934
75°	3046	3118	2931
80°	2041	2018	1854
85°	1022	1227	1493

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6036 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	493.2	3.8
10°-20°	1386.2	10.8
20°-30°	2036.0	15.8
30°-40°	2371.8	18.4
40°-50°	2377.7	18.5
50°-60°	2054.4	15.9
60°-70°	1423.8	11.1
70°-80°	632.2	4.9
80°-90°	106.6	0.8
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°	3915.4	30.4
0°-40°	6287.2	48.8
0°-60°	10719.4	83.2
0°-90°	12882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12882.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5238	5238	5238	5238	5238	
5°	5227	5205	5212	5188	5194	496
15°	4968	4937	4920	4889	4894	1400
25°	4486	4449	4411	4385	4398	2064
35°	3830	3788	3761	3788	3824	2394
45°	3064	3033	3055	3127	3172	2364
55°	2248	2229	2285	2367	2400	2007
65°	1400	1403	1447	1466	1478	1386
75°	586	590	600	574	564	631
85°	66	71	80	92	97	100
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5238.5	5238.5	5238.5	5238.5	5238.5
2.5°	5250.2	5228.5	5238.5	5220.9	5216.0
5°	5226.7	5204.6	5212.0	5188.4	5193.7
7.5°	5186.3	5162.7	5164.8	5139.7	5145.8
10°	5129.8	5102.5	5099.7	5069.9	5073.8
12.5°	5057.9	5028.9	5019.8	4987.0	4994.4
15°	4968.0	4937.3	4920.5	4888.9	4894.5
17.5°	4869.6	4838.7	4810.6	4778.3	4790.1
20°	4752.3	4720.8	4687.8	4653.9	4667.8
22.5°	4623.1	4588.5	4556.1	4523.9	4535.0
25°	4485.6	4449.0	4411.4	4385.4	4398.3
27.5°	4335.5	4295.2	4259.9	4239.9	4257.8
30°	4174.5	4133.6	4099.7	4092.5	4115.9
32.5°	4004.9	3964.9	3934.1	3944.7	3976.8
35°	3830.1	3787.7	3761.3	3788.4	3823.8
37.5°	3648.7	3607.5	3590.2	3633.1	3670.2
40°	3455.1	3419.7	3415.6	3469.2	3508.3
42.5°	3261.7	3229.0	3237.8	3302.5	3344.7
45°	3064.0	3032.6	3055.4	3126.9	3171.9
47.5°	2869.1	2835.8	2870.8	2948.8	2989.0
50°	2661.3	2635.5	2679.7	2760.5	2801.7
52.5°	2454.6	2431.1	2484.5	2568.9	2615.2
55°	2247.7	2228.7	2285.2	2366.9	2399.6
57.5°	2036.3	2025.9	2084.1	2154.1	2184.7
60°	1826.0	1817.7	1874.9	1936.1	1962.9
62.5°	1613.4	1608.7	1663.4	1708.4	1721.3
65°	1400.3	1402.6	1447.0	1465.6	1478.5
67.5°	1192.4	1192.6	1230.6	1242.1	1243.1
70°	975.6	982.7	1008.4	1006.9	999.9
72.5°	778.0	780.9	796.0	782.5	771.3
75°	585.9	590.5	599.7	573.9	563.9
77.5°	411.4	421.4	414.6	391.1	382.1
80°	263.4	273.8	260.4	246.6	239.3
82.5°	146.3	152.0	145.2	155.7	160.0
85°	66.2	70.8	79.5	92.1	96.7
87.5°	22.4	26.7	32.9	34.7	32.5
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	17.71	19.29	18.07	19.61	19.92	18.15	19.73	18.51	20.04	20.36
	3H	19.16	20.58	19.54	20.91	21.27	19.53	20.95	19.91	21.28	21.64
	4H	19.58	20.91	19.98	21.26	21.64	19.88	21.22	20.28	21.56	21.94
	6H	19.77	21.01	20.19	21.37	21.77	20.02	21.26	20.43	21.62	22.01
	8H	19.80	20.97	20.22	21.36	21.76	20.04	21.22	20.47	21.61	22.01
	12H	19.79	20.92	20.22	21.30	21.73	20.05	21.18	20.48	21.56	21.99
4H	2H	18.30	19.63	18.69	19.98	20.36	18.65	19.99	19.05	20.33	20.71
	3H	19.92	21.03	20.33	21.43	21.83	20.21	21.32	20.62	21.72	22.12
	4H	20.42	21.42	20.85	21.83	22.27	20.64	21.64	21.08	22.06	22.49
	6H	20.69	21.56	21.15	22.00	22.46	20.85	21.72	21.31	22.16	22.62
	8H	20.73	21.54	21.19	21.98	22.45	20.89	21.70	21.35	22.14	22.61
	12H	20.74	21.46	21.22	21.94	22.41	20.91	21.63	21.39	22.11	22.58
8H	4H	20.59	21.40	21.05	21.85	22.31	20.80	21.61	21.26	22.05	22.52
	6H	20.92	21.58	21.41	22.07	22.55	21.05	21.72	21.54	22.21	22.68
	8H	20.98	21.57	21.49	22.08	22.57	21.11	21.70	21.62	22.21	22.70
	12H	21.00	21.53	21.51	22.02	22.59	21.16	21.69	21.67	22.18	22.74
12H	4H	20.59	21.31	21.07	21.79	22.26	20.79	21.52	21.27	21.99	22.46
	6H	20.90	21.50	21.42	22.01	22.50	21.04	21.64	21.55	22.15	22.63
	8H	21.00	21.53	21.51	22.02	22.58	21.13	21.66	21.64	22.15	22.71