

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: P1499441

Luminaire Tested: MAE-G-4-120-2STD-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499441
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-4-120-2STD-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

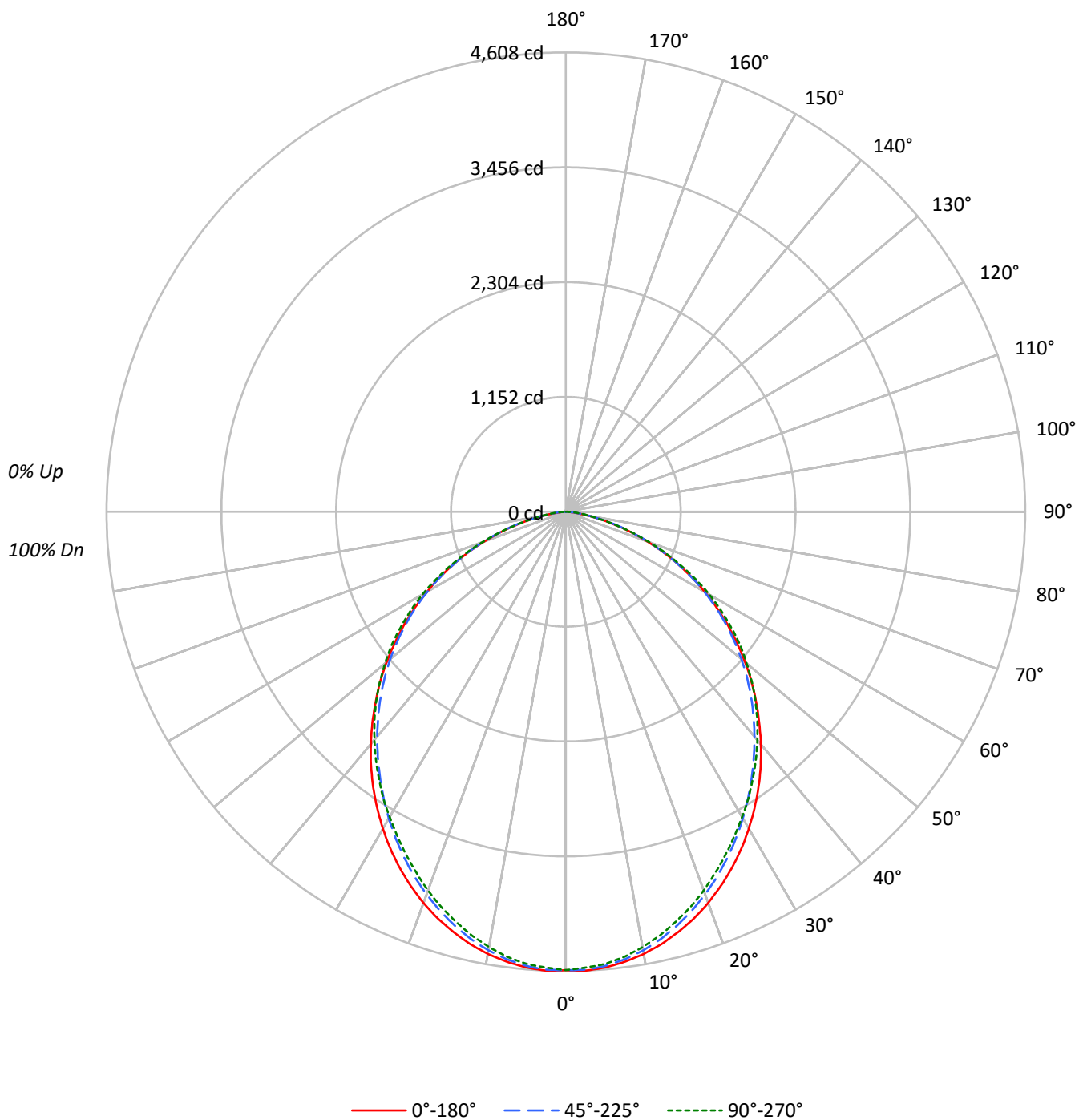
Lumens per Lamp: N/A
Luminaire Lumens: 11193.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	92	90		91	89	88	85
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°	6187	6187	6187
5°	6196	6176	6149
10°	6153	6103	6057
15°	6077	5988	5930
20°	5978	5847	5788
25°	5852	5689	5632
30°	5703	5517	5492
35°	5535	5339	5371
40°	5343	5171	5248
45°	5137	4998	5119
50°	4911	4811	4956
55°	4652	4590	4752
60°	4340	4314	4479
65°	3946	3947	4060
70°	3407	3447	3496
75°	2715	2793	2760
80°	1839	1940	1946
85°	945	1297	1655

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5137 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	432.5	3.9
10°-20°	1211.1	10.8
20°-30°	1770.8	15.8
30°-40°	2053.8	18.3
40°-50°	2050.2	18.3
50°-60°	1766.1	15.8
60°-70°	1232.5	11.0
70°-80°	569.3	5.1
80°-90°	106.7	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°	3414.4	30.5
0°-40°	5468.2	48.9
0°-60°	9284.5	82.9
0°-90°	11193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11193.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4598	4598	4598	4598	4598	
5°	4588	4571	4573	4546	4552	435
15°	4363	4333	4299	4255	4257	1230
25°	3942	3897	3832	3788	3794	1814
35°	3370	3312	3250	3249	3270	2106
45°	2700	2649	2627	2663	2690	2083
55°	1983	1944	1957	2004	2026	1771
65°	1239	1221	1240	1262	1275	1226
75°	522	516	537	533	531	562
85°	61	69	84	100	107	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4598.4	4598.4	4598.4	4598.4	4598.4
2.5°	4607.7	4592.7	4598.4	4578.3	4577.1
5°	4587.7	4571.0	4572.7	4546.3	4552.4
7.5°	4552.4	4533.2	4528.0	4498.1	4503.7
10°	4503.5	4479.8	4467.0	4430.3	4433.2
12.5°	4440.8	4414.0	4391.5	4349.2	4354.1
15°	4362.8	4332.6	4298.9	4254.6	4257.4
17.5°	4276.8	4244.0	4196.7	4149.7	4157.3
20°	4175.1	4139.1	4083.4	4034.5	4042.5
22.5°	4062.5	4021.6	3963.6	3914.9	3919.3
25°	3942.1	3897.0	3832.1	3788.1	3793.5
27.5°	3811.4	3761.2	3695.0	3655.6	3664.7
30°	3670.9	3618.3	3551.3	3522.0	3535.0
32.5°	3523.1	3469.1	3404.0	3388.7	3408.0
35°	3370.0	3312.4	3250.4	3248.6	3270.1
37.5°	3210.7	3154.1	3098.4	3109.7	3132.0
40°	3042.2	2989.0	2943.8	2964.0	2988.1
42.5°	2872.6	2821.5	2787.1	2816.6	2842.6
45°	2699.6	2648.7	2626.8	2662.6	2690.4
47.5°	2527.5	2476.3	2465.5	2506.8	2531.8
50°	2346.3	2300.7	2298.6	2343.4	2367.7
52.5°	2163.6	2121.4	2129.1	2177.3	2207.2
55°	1983.0	1943.7	1956.6	2004.4	2025.6
57.5°	1797.5	1766.3	1783.0	1825.7	1846.6
60°	1612.7	1584.0	1603.3	1644.0	1664.6
62.5°	1425.9	1401.1	1423.1	1457.3	1470.7
65°	1239.4	1220.7	1239.9	1261.9	1275.2
67.5°	1055.8	1038.3	1059.2	1080.4	1085.2
70°	866.1	855.1	876.2	888.7	888.7
72.5°	691.6	680.7	700.8	705.5	702.0
75°	522.3	516.5	537.3	532.8	530.9
77.5°	368.5	371.2	382.1	378.7	377.9
80°	237.3	245.6	250.4	252.8	251.1
82.5°	133.4	141.0	148.3	165.8	172.8
85°	61.2	68.7	84.0	100.4	107.2
87.5°	20.7	26.6	35.3	37.9	36.0
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	17.26	18.84	17.62	19.16	19.47	17.48	19.07	17.85	19.38	19.69
	3H	18.72	20.15	19.10	20.47	20.84	18.95	20.37	19.33	20.70	21.06
	4H	19.15	20.49	19.55	20.83	21.21	19.36	20.70	19.76	21.05	21.43
	6H	19.36	20.59	19.77	20.96	21.35	19.57	20.81	19.98	21.17	21.57
	8H	19.38	20.56	19.81	20.95	21.35	19.62	20.80	20.04	21.19	21.59
	12H	19.38	20.51	19.81	20.89	21.32	19.65	20.77	20.08	21.16	21.58
4H	2H	17.82	19.16	18.22	19.50	19.88	18.00	19.34	18.40	19.68	20.06
	3H	19.46	20.57	19.87	20.97	21.37	19.65	20.76	20.06	21.16	21.56
	4H	19.97	20.97	20.40	21.38	21.82	20.16	21.16	20.59	21.57	22.01
	6H	20.25	21.13	20.71	21.57	22.02	20.45	21.32	20.90	21.76	22.22
	8H	20.30	21.11	20.76	21.55	22.02	20.51	21.33	20.98	21.77	22.24
	12H	20.31	21.04	20.79	21.52	21.99	20.57	21.29	21.05	21.77	22.24
8H	4H	20.16	20.97	20.62	21.41	21.88	20.33	21.14	20.79	21.59	22.05
	6H	20.50	21.17	20.99	21.66	22.14	20.68	21.35	21.17	21.84	22.31
	8H	20.57	21.17	21.08	21.68	22.17	20.78	21.38	21.29	21.89	22.38
	12H	20.60	21.14	21.11	21.63	22.19	20.87	21.40	21.38	21.89	22.45
12H	4H	20.16	20.88	20.64	21.36	21.83	20.33	21.06	20.81	21.53	22.00
	6H	20.50	21.10	21.01	21.61	22.10	20.67	21.27	21.18	21.78	22.27
	8H	20.60	21.13	21.11	21.63	22.19	20.81	21.34	21.32	21.83	22.40