

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: P1498868

Luminaire Tested: MAE-G-2-120-3STD-STD-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498868
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-2-120-3STD-STD-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

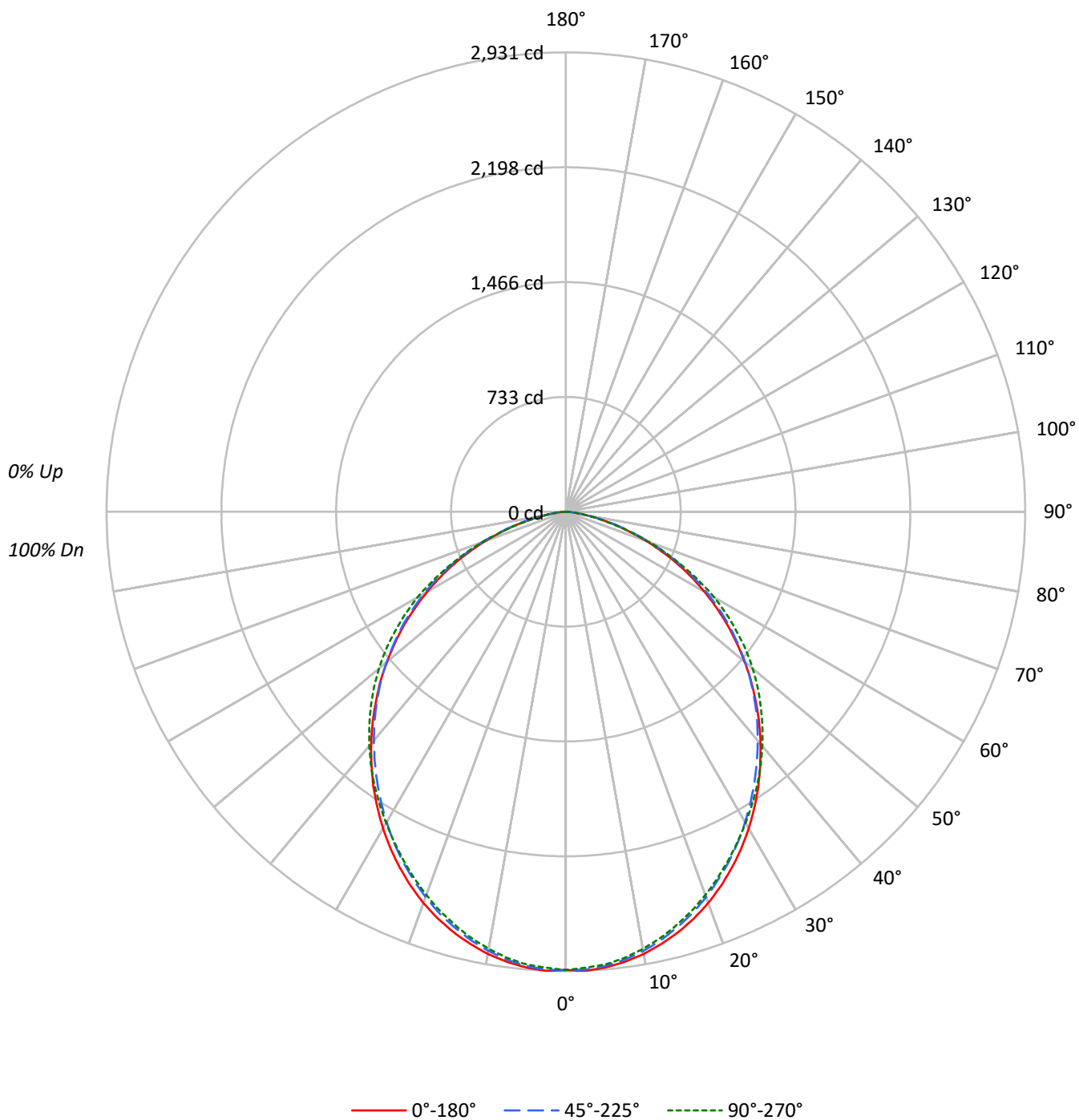
Lumens per Lamp: N/A
Luminaire Lumens: 7194.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	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	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7868	7868	7868
5°	7883	7857	7831
10°	7828	7776	7737
15°	7733	7648	7607
20°	7606	7493	7452
25°	7440	7312	7282
30°	7250	7106	7125
35°	7033	6896	6992
40°	6789	6692	6852
45°	6524	6484	6696
50°	6234	6248	6513
55°	5907	5975	6245
60°	5502	5625	5888
65°	4998	5152	5268
70°	4305	4478	4445
75°	3422	3557	3326
80°	2303	2332	2170
85°	1183	1463	1782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.3	3.8
10°-20°	773.5	10.8
20°-30°	1135.8	15.8
30°-40°	1322.3	18.4
40°-50°	1325.1	18.4
50°-60°	1145.1	15.9
60°-70°	796.8	11.1
70°-80°	358.0	5.0
80°-90°	62.1	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°	2184.6	30.4
0°-40°	3506.9	48.7
0°-60°	5977.0	83.1
0°-90°	7194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2924	2924	2924	2924	2924	
5°	2918	2906	2909	2895	2899	277
15°	2776	2758	2745	2726	2730	782
25°	2506	2483	2462	2443	2453	1154
35°	2141	2114	2099	2108	2128	1338
45°	1714	1695	1704	1737	1760	1323
55°	1259	1245	1274	1316	1331	1124
65°	785	782	809	824	827	776
75°	329	332	342	330	320	353
85°	38	41	47	55	58	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2924.0	2924.0	2924.0	2924.0	2924.0
2.5°	2931.4	2919.3	2924.0	2913.5	2911.4
5°	2918.2	2905.7	2908.8	2895.1	2899.1
7.5°	2895.6	2882.3	2881.9	2867.1	2870.6
10°	2864.7	2849.2	2845.6	2828.7	2831.4
12.5°	2823.9	2807.8	2800.1	2780.8	2785.4
15°	2775.8	2758.0	2745.3	2726.2	2730.4
17.5°	2720.1	2700.5	2685.1	2662.9	2669.9
20°	2656.1	2635.0	2616.7	2593.1	2602.2
22.5°	2584.6	2562.3	2541.2	2520.2	2529.2
25°	2505.8	2483.2	2462.5	2443.3	2452.7
27.5°	2422.8	2397.6	2376.8	2362.9	2373.4
30°	2333.1	2307.0	2286.9	2278.1	2293.1
32.5°	2238.3	2212.6	2194.6	2194.6	2211.9
35°	2140.9	2113.9	2099.3	2108.3	2128.5
37.5°	2036.3	2013.5	2003.3	2021.2	2041.7
40°	1932.6	1908.8	1905.1	1928.8	1950.5
42.5°	1825.3	1804.2	1805.6	1836.1	1856.3
45°	1714.2	1694.7	1703.7	1737.4	1759.5
47.5°	1605.2	1585.0	1600.0	1636.8	1660.7
50°	1489.2	1472.7	1492.5	1533.9	1555.7
52.5°	1373.8	1358.1	1383.8	1427.4	1448.4
55°	1259.1	1244.9	1273.6	1316.0	1331.1
57.5°	1140.4	1132.2	1161.8	1199.1	1214.9
60°	1022.3	1015.2	1045.2	1079.7	1094.0
62.5°	904.0	899.8	928.4	956.5	961.3
65°	785.0	782.4	809.2	824.3	827.3
67.5°	664.6	665.4	690.0	697.7	697.4
70°	547.2	546.6	569.1	571.2	564.9
72.5°	433.1	435.9	450.6	447.2	437.0
75°	329.1	331.7	342.1	329.5	319.9
77.5°	232.2	234.5	239.1	225.2	219.2
80°	148.6	153.1	150.5	144.1	140.0
82.5°	83.0	87.7	85.5	92.0	95.0
85°	38.3	41.2	47.4	54.7	57.7
87.5°	13.1	15.6	19.4	20.8	19.4
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	18.10	19.68	18.46	20.00	20.31	18.51	20.09	18.87	20.40	20.72
	3H	19.55	20.97	19.92	21.30	21.66	19.92	21.34	20.29	21.67	22.03
	4H	19.96	21.30	20.36	21.65	22.03	20.28	21.62	20.68	21.97	22.35
	6H	20.17	21.40	20.58	21.77	22.16	20.44	21.67	20.85	22.04	22.43
	8H	20.19	21.37	20.62	21.76	22.16	20.46	21.64	20.89	22.03	22.43
	12H	20.19	21.32	20.62	21.70	22.13	20.48	21.60	20.91	21.99	22.41
4H	2H	18.69	20.02	19.08	20.37	20.75	19.02	20.35	19.41	20.70	21.08
	3H	20.31	21.42	20.72	21.82	22.22	20.61	21.72	21.02	22.12	22.52
	4H	20.81	21.81	21.24	22.22	22.66	21.06	22.06	21.49	22.48	22.91
	6H	21.08	21.95	21.54	22.40	22.85	21.29	22.15	21.74	22.60	23.05
	8H	21.12	21.94	21.59	22.38	22.85	21.33	22.14	21.79	22.58	23.05
	12H	21.13	21.86	21.62	22.34	22.81	21.36	22.08	21.84	22.56	23.03
8H	4H	20.99	21.80	21.45	22.25	22.71	21.22	22.03	21.68	22.48	22.94
	6H	21.32	21.99	21.81	22.48	22.96	21.49	22.16	21.99	22.65	23.13
	8H	21.38	21.98	21.90	22.49	22.98	21.56	22.16	22.07	22.67	23.16
	12H	21.42	21.94	21.92	22.44	23.00	21.62	22.15	22.13	22.64	23.21
12H	4H	20.99	21.71	21.47	22.19	22.66	21.22	21.94	21.70	22.42	22.89
	6H	21.31	21.91	21.82	22.42	22.91	21.48	22.09	22.00	22.59	23.08
	8H	21.41	21.94	21.92	22.43	22.99	21.59	22.11	22.09	22.61	23.17