

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: P1498388

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498388
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-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

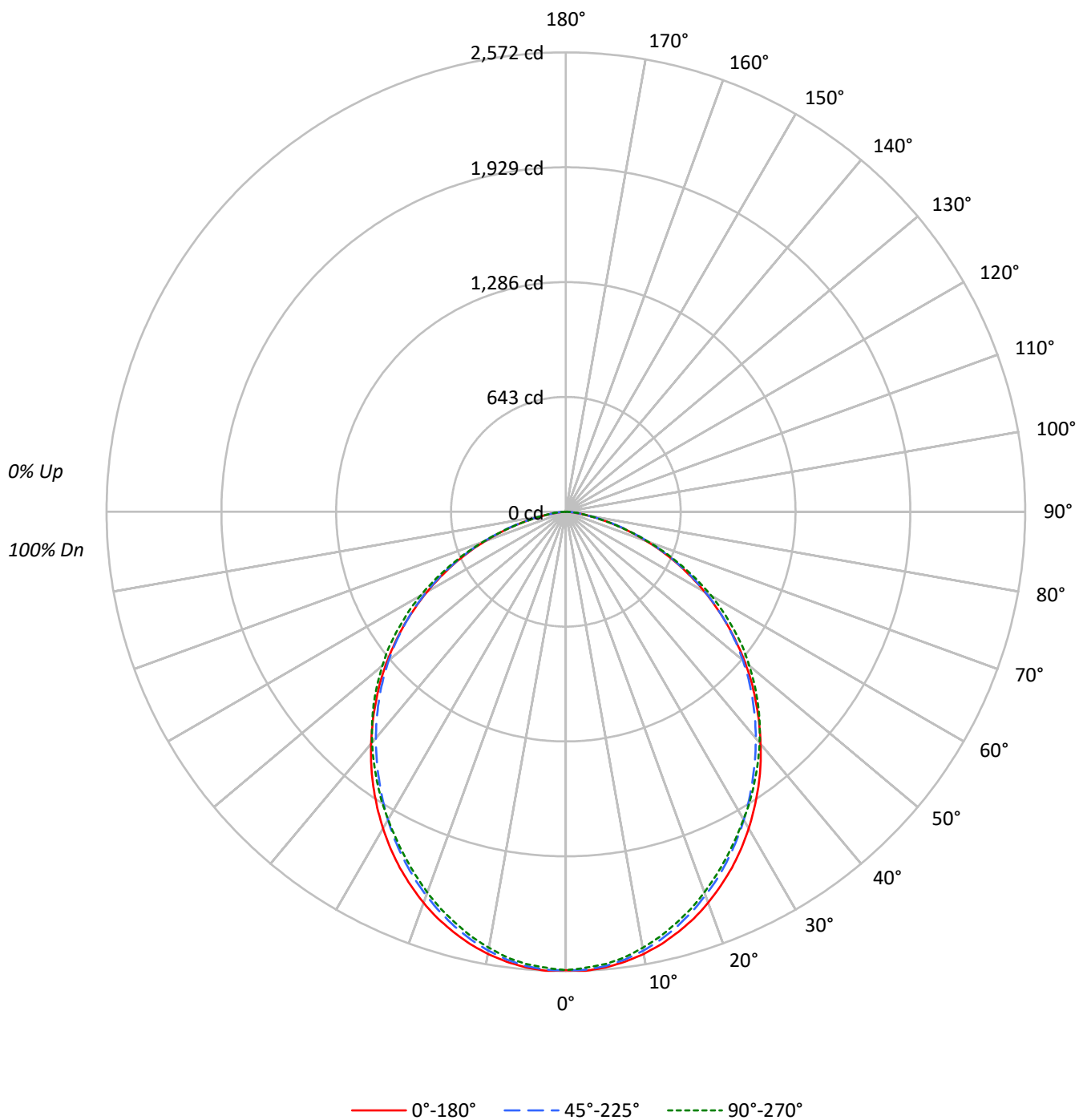
Lumens per Lamp: N/A
Luminaire Lumens: 6272.0 lumens
Efficiency: N/A
Efficacy: 78.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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	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°	6907	6907	6907
5°	6918	6896	6868
10°	6869	6819	6774
15°	6783	6697	6643
20°	6672	6546	6495
25°	6531	6376	6329
30°	6363	6191	6182
35°	6174	5996	6056
40°	5958	5812	5926
45°	5727	5624	5790
50°	5474	5418	5614
55°	5183	5172	5384
60°	4834	4864	5067
65°	4392	4447	4563
70°	3788	3862	3885
75°	3014	3094	3004
80°	2033	2095	2039
85°	1034	1355	1704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5790 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.5	3.9
10°-20°	677.2	10.8
20°-30°	991.9	15.8
30°-40°	1152.3	18.4
40°-50°	1152.2	18.4
50°-60°	993.6	15.8
60°-70°	691.6	11.0
70°-80°	314.8	5.0
80°-90°	56.8	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°	1910.7	30.5
0°-40°	3063.0	48.8
0°-60°	5208.8	83.0
0°-90°	6272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2567	2567	2567	2567	2567	
5°	2561	2551	2553	2539	2542	243
15°	2435	2419	2404	2383	2385	686
25°	2200	2177	2148	2127	2132	1012
35°	1880	1852	1825	1830	1843	1175
45°	1505	1481	1478	1504	1521	1161
55°	1105	1088	1102	1134	1148	987
65°	690	684	698	710	717	683
75°	290	289	298	291	289	312
85°	34	37	44	52	55	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2566.9	2566.9	2566.9	2566.9	2566.9
2.5°	2572.3	2563.0	2566.9	2556.7	2555.2
5°	2560.9	2551.1	2553.0	2539.4	2542.5
7.5°	2541.2	2530.2	2528.7	2513.7	2516.8
10°	2513.7	2500.5	2495.5	2477.2	2478.9
12.5°	2478.6	2464.0	2454.5	2433.7	2436.7
15°	2434.9	2418.8	2404.0	2382.6	2384.6
17.5°	2386.9	2369.8	2348.0	2325.7	2330.6
20°	2329.8	2311.5	2286.0	2262.6	2268.0
22.5°	2266.8	2246.2	2219.9	2197.1	2200.6
25°	2199.6	2177.1	2147.5	2127.4	2131.7
27.5°	2126.4	2101.4	2071.9	2054.4	2060.9
30°	2047.8	2021.8	1992.3	1980.8	1989.6
32.5°	1965.0	1938.8	1910.4	1907.0	1919.7
35°	1879.5	1851.6	1825.1	1829.5	1843.4
37.5°	1790.6	1763.3	1740.6	1752.4	1767.0
40°	1696.2	1671.2	1654.6	1671.5	1687.1
42.5°	1601.5	1577.6	1567.2	1589.5	1606.3
45°	1504.8	1481.4	1477.8	1503.5	1521.4
47.5°	1409.0	1385.0	1387.7	1416.3	1432.5
50°	1307.6	1286.9	1294.3	1324.8	1340.9
52.5°	1205.8	1186.8	1199.3	1231.6	1250.5
55°	1104.8	1087.7	1102.5	1134.2	1147.6
57.5°	1001.3	988.5	1004.9	1032.7	1045.7
60°	898.2	886.6	903.8	929.3	941.4
62.5°	793.9	784.4	802.1	822.3	829.4
65°	689.7	683.6	698.4	709.5	716.6
67.5°	587.5	581.4	595.6	605.1	607.0
70°	481.4	478.9	490.9	495.1	493.8
72.5°	384.3	381.0	390.8	389.9	386.7
75°	289.9	288.7	297.6	291.4	288.9
77.5°	204.1	207.0	209.4	204.0	202.0
80°	131.2	136.0	135.2	133.5	131.6
82.5°	73.4	77.1	78.4	86.5	89.7
85°	33.5	37.0	43.9	51.9	55.2
87.5°	11.4	14.2	18.3	19.6	18.5
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	17.64	19.22	18.01	19.54	19.85	17.95	19.53	18.31	19.84	20.16
	3H	19.10	20.52	19.48	20.85	21.21	19.38	20.80	19.76	21.13	21.49
	4H	19.52	20.86	19.92	21.21	21.58	19.77	21.11	20.17	21.46	21.83
	6H	19.73	20.96	20.14	21.33	21.72	19.95	21.19	20.36	21.55	21.94
	8H	19.75	20.93	20.18	21.32	21.72	19.99	21.17	20.41	21.55	21.95
	12H	19.75	20.88	20.18	21.26	21.69	20.01	21.13	20.44	21.52	21.95
4H	2H	18.21	19.55	18.61	19.89	20.27	18.46	19.79	18.86	20.14	20.52
	3H	19.84	20.96	20.25	21.35	21.75	20.07	21.19	20.48	21.58	21.98
	4H	20.35	21.35	20.78	21.77	22.20	20.55	21.55	20.98	21.97	22.40
	6H	20.63	21.50	21.09	21.94	22.40	20.81	21.68	21.26	22.12	22.58
	8H	20.67	21.48	21.13	21.93	22.39	20.86	21.68	21.33	22.12	22.59
	12H	20.68	21.41	21.16	21.89	22.36	20.90	21.63	21.39	22.11	22.58
8H	4H	20.53	21.35	21.00	21.79	22.25	20.72	21.53	21.18	21.97	22.44
	6H	20.87	21.54	21.36	22.03	22.50	21.03	21.70	21.52	22.19	22.66
	8H	20.93	21.53	21.45	22.04	22.53	21.11	21.71	21.62	22.22	22.71
	12H	20.97	21.50	21.48	21.99	22.55	21.19	21.72	21.70	22.21	22.77
12H	4H	20.53	21.26	21.01	21.73	22.20	20.71	21.44	21.20	21.92	22.39
	6H	20.86	21.47	21.38	21.97	22.46	21.02	21.62	21.53	22.13	22.62
	8H	20.96	21.49	21.47	21.98	22.55	21.14	21.67	21.65	22.16	22.72