

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: P1499153

Luminaire Tested: MAE-G-4-120-1STD-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

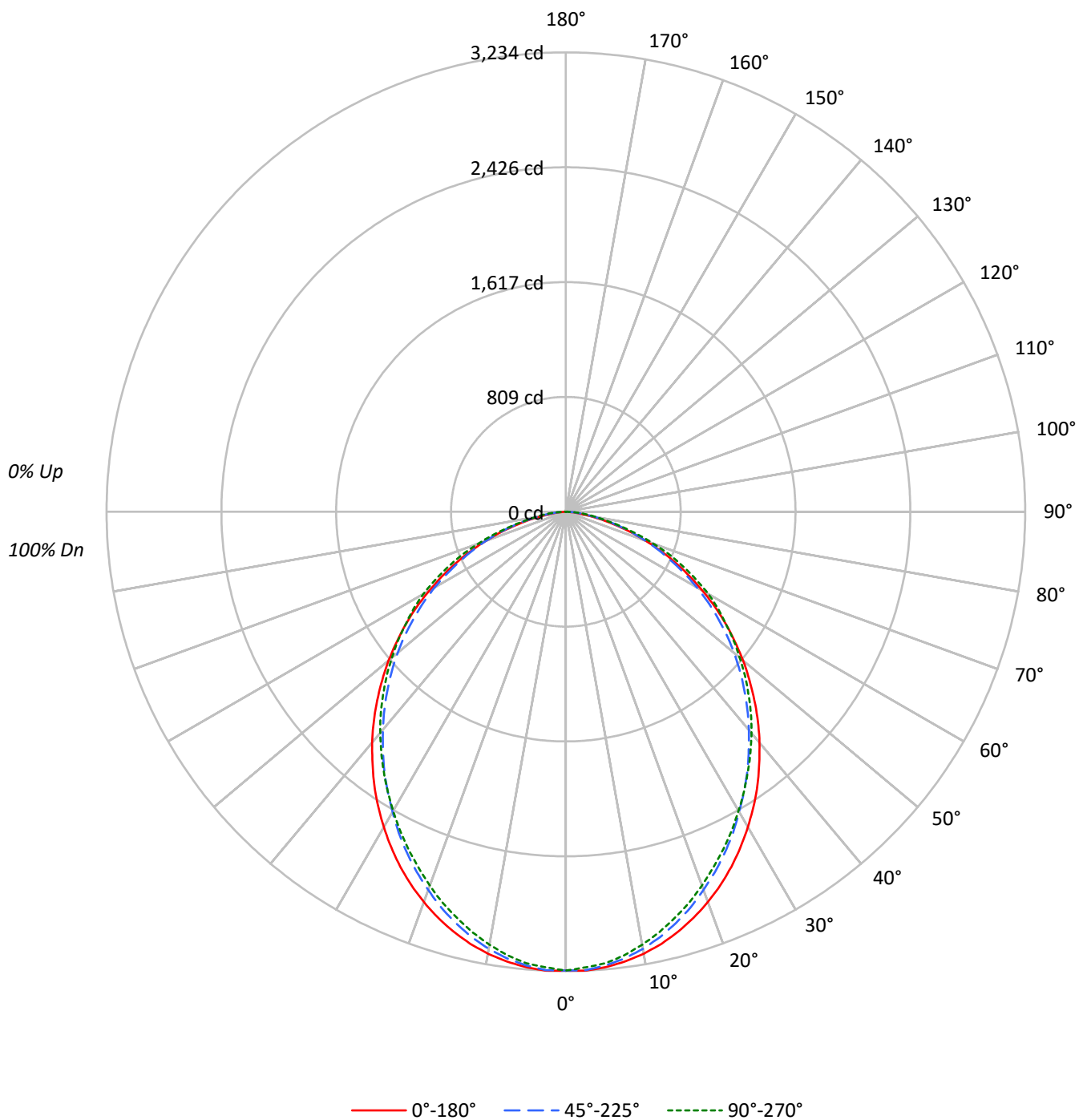
Lumens per Lamp: N/A
Luminaire Lumens: 7729.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4346	4346	4346
5°	4347	4331	4310
10°	4316	4269	4228
15°	4262	4174	4124
20°	4187	4057	4009
25°	4094	3931	3892
30°	3982	3791	3777
35°	3863	3659	3671
40°	3726	3520	3571
45°	3573	3382	3461
50°	3410	3235	3347
55°	3221	3064	3226
60°	2989	2868	3119
65°	2720	2613	2899
70°	2360	2349	2584
75°	1884	1999	2122
80°	1303	1544	1683
85°	727	1178	1531

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3573 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.2	3.9
10°-20°	845.2	10.9
20°-30°	1227.7	15.9
30°-40°	1412.9	18.3
40°-50°	1398.5	18.1
50°-60°	1197.4	15.5
60°-70°	844.5	10.9
70°-80°	410.3	5.3
80°-90°	89.3	1.2
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°	2376.1	30.7
0°-40°	3789.0	49.0
0°-60°	6384.8	82.6
0°-90°	7729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3230	3230	3230	3230	3230	
5°	3219	3216	3206	3184	3191	305
15°	3059	3042	2996	2956	2960	862
25°	2757	2717	2648	2614	2622	1269
35°	2352	2296	2228	2219	2235	1469
45°	1878	1827	1777	1799	1819	1448
55°	1373	1327	1306	1345	1375	1226
65°	854	818	821	883	911	845
75°	362	347	385	408	408	391
85°	47	58	76	93	99	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3229.8	3229.8	3229.8	3229.8	3229.8
2.5°	3233.5	3236.2	3229.8	3205.6	3209.8
5°	3218.7	3215.9	3206.3	3183.6	3190.8
7.5°	3193.0	3188.6	3171.2	3144.4	3149.1
10°	3158.9	3150.1	3124.4	3090.8	3094.8
12.5°	3114.7	3102.9	3066.6	3028.5	3032.8
15°	3059.4	3042.3	2996.2	2956.2	2960.5
17.5°	2995.9	2976.4	2920.6	2877.2	2886.4
20°	2923.9	2897.6	2833.4	2792.3	2800.1
22.5°	2844.7	2811.5	2744.3	2704.6	2710.8
25°	2757.4	2717.3	2648.2	2614.3	2621.7
27.5°	2663.3	2619.1	2548.2	2517.1	2528.5
30°	2563.0	2515.5	2440.2	2418.8	2431.3
32.5°	2460.0	2409.4	2335.2	2321.5	2333.9
35°	2351.7	2296.5	2227.5	2219.3	2234.9
37.5°	2235.9	2182.8	2114.7	2120.0	2134.6
40°	2121.3	2066.3	2004.0	2015.7	2033.3
42.5°	2001.9	1949.0	1892.1	1908.5	1929.1
45°	1877.7	1827.1	1777.4	1799.3	1818.9
47.5°	1753.0	1702.9	1662.5	1688.1	1711.5
50°	1629.1	1581.0	1545.7	1576.7	1598.8
52.5°	1499.2	1453.4	1428.0	1460.8	1489.1
55°	1373.2	1326.6	1306.2	1345.2	1375.1
57.5°	1243.1	1204.8	1187.2	1233.0	1270.4
60°	1110.9	1073.2	1065.6	1123.5	1158.9
62.5°	981.6	944.8	941.3	1009.1	1034.6
65°	854.4	817.9	820.7	883.3	910.7
67.5°	728.4	694.9	710.3	770.4	788.7
70°	600.0	570.2	597.1	647.8	656.9
72.5°	479.5	454.3	490.9	526.4	528.6
75°	362.4	346.8	384.6	408.0	408.2
77.5°	259.4	251.3	286.0	302.0	303.0
80°	168.2	171.9	199.3	211.8	217.2
82.5°	98.0	106.6	128.2	149.4	155.0
85°	47.1	57.5	76.3	92.6	99.2
87.5°	16.3	23.2	31.9	35.3	34.4
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	15.90	17.49	16.27	17.80	18.11	16.07	17.65	16.44	17.97	18.28
	3H	17.35	18.78	17.73	19.10	19.46	17.72	19.14	18.09	19.47	19.83
	4H	17.78	19.12	18.18	19.47	19.84	18.22	19.56	18.62	19.90	20.28
	6H	18.00	19.24	18.41	19.60	19.99	18.51	19.75	18.93	20.12	20.51
	8H	18.03	19.21	18.46	19.60	20.00	18.60	19.78	19.03	20.17	20.57
	12H	18.04	19.17	18.47	19.55	19.98	18.66	19.79	19.09	20.17	20.60
4H	2H	16.42	17.76	16.82	18.10	18.48	16.56	17.89	16.95	18.24	18.62
	3H	18.05	19.17	18.46	19.57	19.97	18.41	19.52	18.82	19.92	20.32
	4H	18.57	19.57	19.00	19.98	20.42	19.02	20.02	19.45	20.44	20.88
	6H	18.87	19.74	19.32	20.18	20.64	19.42	20.29	19.87	20.73	21.19
	8H	18.92	19.74	19.38	20.18	20.65	19.54	20.36	20.00	20.80	21.27
	12H	18.94	19.68	19.43	20.15	20.62	19.64	20.37	20.12	20.85	21.32
8H	4H	18.79	19.61	19.25	20.05	20.52	19.20	20.02	19.66	20.46	20.93
	6H	19.16	19.83	19.65	20.32	20.80	19.68	20.36	20.18	20.84	21.32
	8H	19.25	19.85	19.76	20.36	20.85	19.86	20.46	20.37	20.97	21.46
	12H	19.30	19.83	19.81	20.32	20.89	20.01	20.55	20.52	21.04	21.60
12H	4H	18.80	19.53	19.28	20.01	20.48	19.20	19.93	19.68	20.41	20.88
	6H	19.18	19.78	19.69	20.29	20.78	19.69	20.29	20.20	20.80	21.29
	8H	19.31	19.84	19.82	20.33	20.90	19.91	20.44	20.41	20.93	21.49