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: P1498403

Luminaire Tested: MAE-G-2-120-2HI-STD-50-90-WDDCPH

Issue Date: 6/26/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1498403
	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-50-90-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:	6670.0 lumens
Efficiency:	N/A
Efficacy:	83.4 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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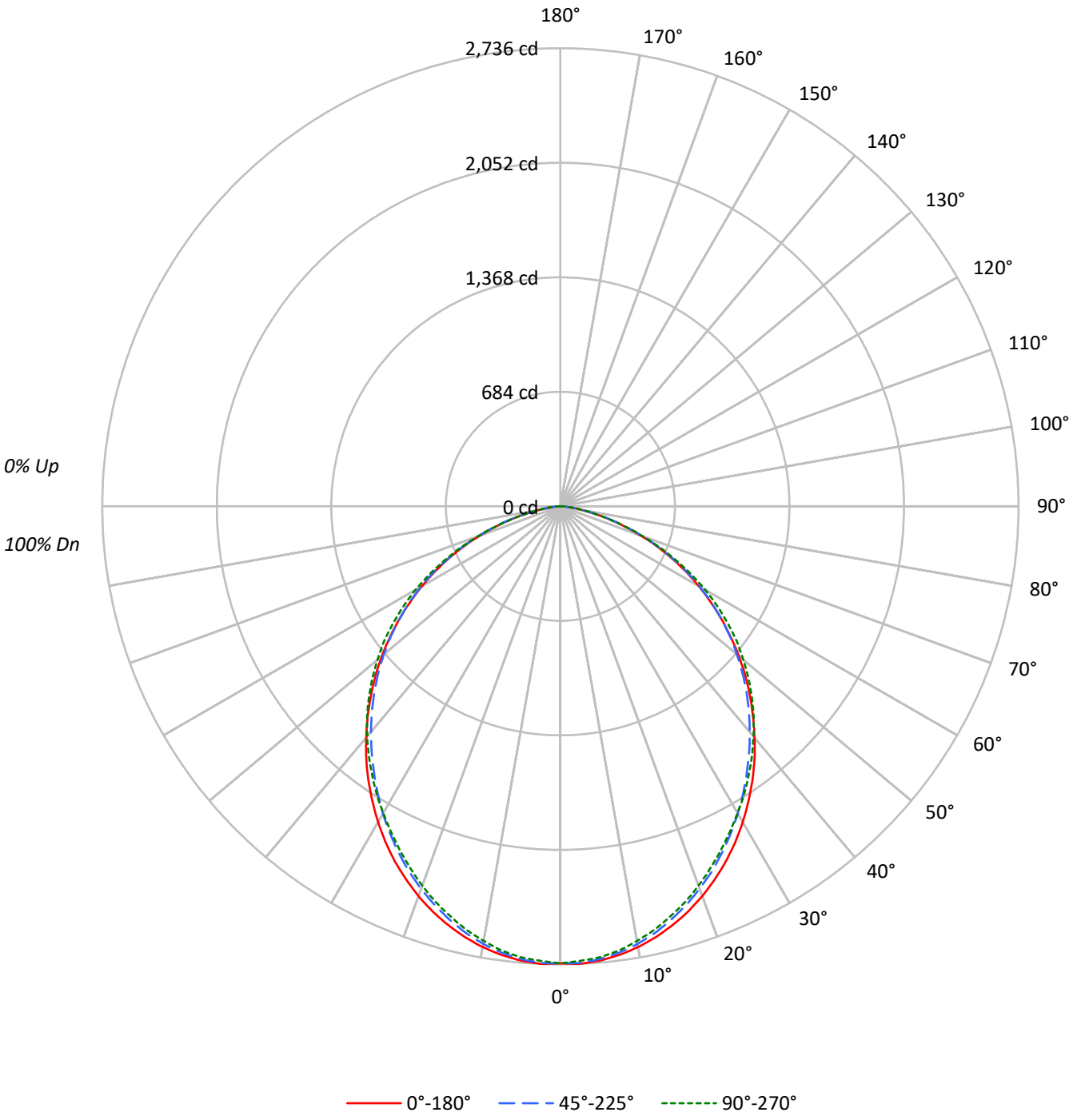
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	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°	7346	7346	7346
5°	7357	7334	7304
10°	7304	7251	7204
15°	7214	7122	7065
20°	7095	6962	6907
25°	6945	6781	6731
30°	6767	6583	6574
35°	6566	6376	6440
40°	6337	6181	6303
45°	6090	5981	6157
50°	5822	5763	5970
55°	5513	5501	5726
60°	5140	5173	5388
65°	4670	4730	4852
70°	4028	4108	4131
75°	3205	3291	3194
80°	2163	2228	2168
85°	1102	1442	1812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 6157 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.8	3.9
10°-20°	720.2	10.8
20°-30°	1054.9	15.8
30°-40°	1225.5	18.4
40°-50°	1225.3	18.4
50°-60°	1056.7	15.8
60°-70°	735.5	11.0
70°-80°	334.8	5.0
80°-90°	60.4	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°	2031.9	30.5
0°-40°	3257.4	48.8
0°-60°	5539.3	83.0
0°-90°	6670.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6670.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2730	2730	2730	2730	2730	
5°	2723	2713	2715	2701	2704	258
15°	2589	2572	2556	2534	2536	730
25°	2339	2315	2284	2262	2267	1077
35°	1999	1969	1941	1946	1960	1249
45°	1600	1575	1572	1599	1618	1235
55°	1175	1157	1172	1206	1220	1049
65°	734	727	743	754	762	726
75°	308	307	316	310	307	332
85°	36	39	47	55	59	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2729.8*	2729.8	2729.8	2729.8	2729.8
2.5°	*2735.5*	*2725.6*	*2729.8*	*2718.9*	*2717.4*
5°	*2723.4*	2712.9	2715.0	2700.6	2703.9
7.5°	*2702.4*	2690.7	2689.2	2673.3	2676.5
10°	*2673.2*	2659.1	2653.8	2634.4	2636.3
12.5°	*2635.9*	2620.3	2610.2	2588.1	2591.4
15°	*2589.4*	2572.3	2556.4	2533.8	2536.0
17.5°	*2538.3*	2520.1	2497.1	2473.3	2478.4
20°	*2477.7*	2458.2	2431.0	2406.2	2412.0
22.5°	*2410.6*	2388.7	2360.9	2336.5	2340.3
25°	*2339.1*	2315.2	2283.7	2262.4	2266.9
27.5°	*2261.3*	2234.8	2203.3	2184.8	2191.6
30°	*2177.8*	2150.2	2118.7	2106.4	2115.8
32.5°	*2089.7*	2061.9	2031.7	2028.1	2041.6
35°	*1998.8*	1969.1	1940.9	1945.6	1960.4
37.5°	*1904.2*	1875.1	1851.1	1863.7	1879.2
40°	*1803.9*	1777.2	1759.6	1777.6	1794.2
42.5°	*1703.1*	1677.8	1666.7	1690.3	1708.2
45°	*1600.3*	1575.3	1571.6	1598.9	1618.0
47.5°	*1498.3*	1472.8	1475.7	1506.3	1523.4
50°	*1390.6*	1368.6	1376.5	1408.8	1426.0
52.5°	*1282.3*	1262.1	1275.4	1309.8	1330.0
55°	*1175.0*	1156.6	1172.5	1206.2	1220.4
57.5°	*1064.8*	1051.2	1068.7	1098.3	1112.0
60°	*955.1*	942.9	961.2	988.3	1001.1
62.5°	*844.4*	834.1	853.1	874.5	882.0
65°	*733.5*	727.0	742.8	754.5	762.0
67.5°	*624.7*	618.3	633.5	643.5	645.6
70°	*512.0*	509.3	522.1	526.5	525.1
72.5°	*408.6*	405.2	415.6	414.7	411.1
75°	*308.3*	307.1	316.5	309.8	307.2
77.5°	*217.1*	220.1	222.8	217.0	214.8
80°	*139.6*	144.6	143.8	142.0	139.9
82.5°	*78.1*	82.1	83.4	91.9	95.3
85°	*35.7*	39.3	46.7	55.3	58.7
87.5°	*12.0*	15.1	19.5	20.9	19.7
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	17.85	19.44	18.22	19.75	20.07	18.16	19.74	18.52	20.06	20.37
	3H	19.31	20.74	19.69	21.06	21.43	19.59	21.02	19.97	21.34	21.71
	4H	19.74	21.07	20.13	21.42	21.80	19.98	21.32	20.38	21.67	22.05
	6H	19.94	21.18	20.35	21.54	21.93	20.17	21.40	20.58	21.77	22.16
	8H	19.97	21.14	20.39	21.53	21.93	20.20	21.38	20.63	21.77	22.17
	12H	19.96	21.09	20.39	21.47	21.90	20.22	21.35	20.65	21.73	22.16
4H	2H	18.42	19.76	18.82	20.11	20.49	18.67	20.01	19.07	20.36	20.73
	3H	20.06	21.17	20.47	21.57	21.97	20.29	21.40	20.70	21.80	22.20
	4H	20.56	21.56	21.00	21.98	22.42	20.77	21.77	21.20	22.18	22.62
	6H	20.85	21.72	21.30	22.16	22.61	21.02	21.89	21.48	22.33	22.79
	8H	20.89	21.70	21.35	22.14	22.61	21.08	21.89	21.54	22.33	22.80
	12H	20.90	21.62	21.38	22.10	22.57	21.12	21.84	21.60	22.32	22.79
8H	4H	20.75	21.56	21.21	22.00	22.47	20.93	21.74	21.39	22.19	22.65
	6H	21.08	21.75	21.58	22.24	22.72	21.24	21.91	21.73	22.40	22.88
	8H	21.15	21.75	21.66	22.26	22.74	21.32	21.92	21.84	22.43	22.92
	12H	21.18	21.71	21.69	22.20	22.77	21.40	21.93	21.91	22.42	22.99
12H	4H	20.74	21.47	21.23	21.95	22.42	20.93	21.65	21.41	22.13	22.60
	6H	21.08	21.68	21.59	22.19	22.67	21.23	21.84	21.75	22.34	22.83
	8H	21.18	21.71	21.69	22.20	22.76	21.35	21.88	21.86	22.38	22.94

END OF REPORT