

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: P1498277

Luminaire Tested: MAE-G-2-120-1STD-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498277
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-2-120-1STD-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

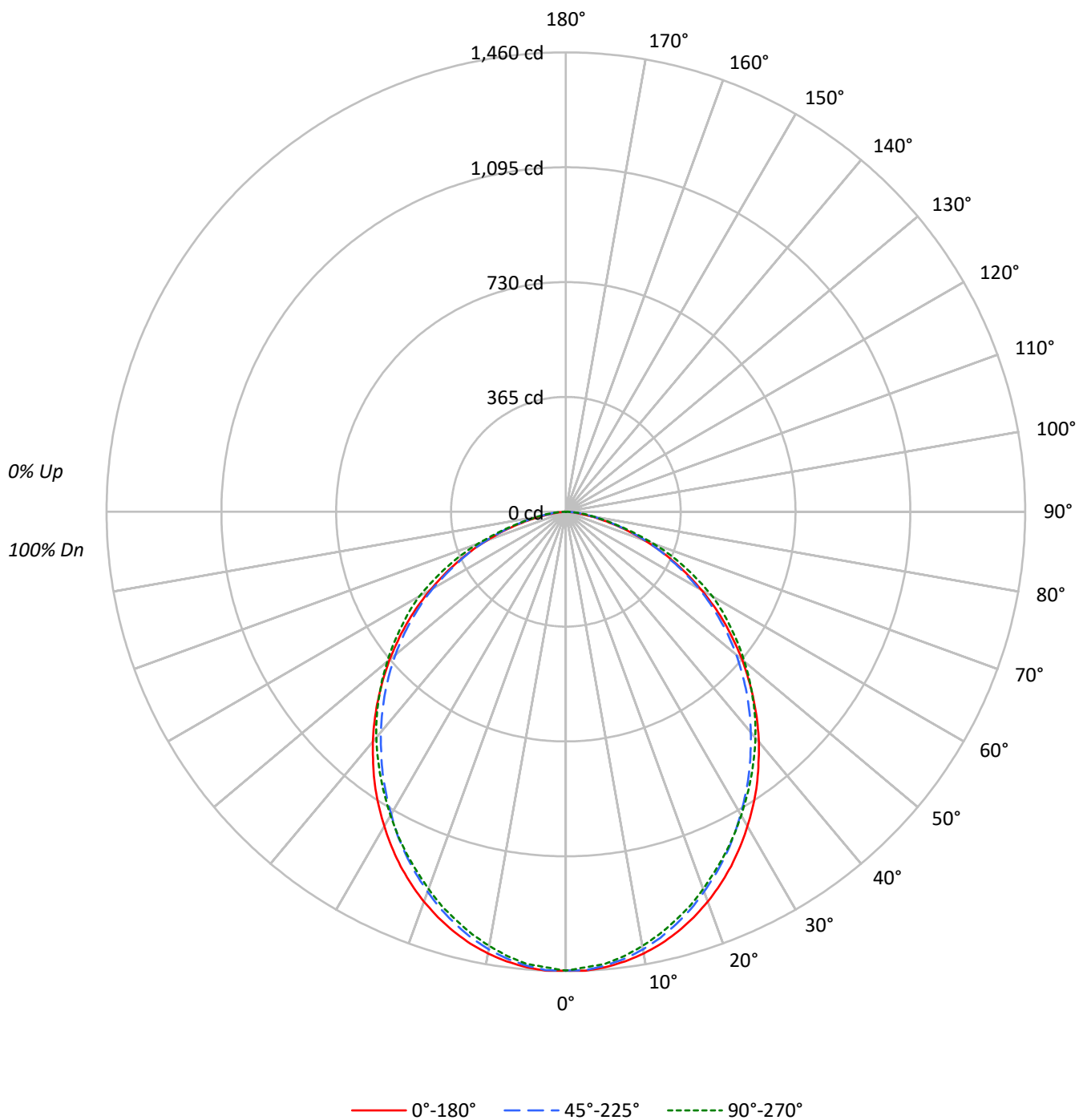
Lumens per Lamp: N/A
Luminaire Lumens: 3510.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	87	85
2	100	92	86	80	98	90	85	79	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	39		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45	39	34	32
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3924	3924	3924
5°	3925	3911	3895
10°	3895	3859	3829
15°	3845	3779	3746
20°	3776	3680	3653
25°	3690	3572	3557
30°	3587	3450	3462
35°	3478	3335	3374
40°	3352	3212	3293
45°	3211	3091	3199
50°	3062	2960	3103
55°	2890	2805	2996
60°	2677	2626	2894
65°	2432	2388	2662
70°	2107	2130	2329
75°	1675	1781	1844
80°	1153	1331	1398
85°	642	985	1254

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3211 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.0	3.9
10°-20°	382.7	10.9
20°-30°	557.4	15.9
30°-40°	643.2	18.3
40°-50°	638.1	18.2
50°-60°	547.3	15.6
60°-70°	384.3	10.9
70°-80°	182.2	5.2
80°-90°	37.9	1.1
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°	1077.0	30.7
0°-40°	1720.2	49.0
0°-60°	2905.6	82.8
0°-90°	3510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1453	1452	1448	1439	1442	138
15°	1380	1374	1356	1342	1345	389
25°	1243	1228	1203	1193	1198	572
35°	1059	1038	1015	1018	1027	661
45°	844	826	812	829	841	651
55°	616	600	598	622	639	550
65°	382	369	375	405	418	378
75°	161	156	171	179	177	174
85°	21	25	32	38	41	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.1	1458.1	1458.1	1458.1	1458.1
2.5°	1459.8	1460.9	1458.1	1447.7	1449.1
5°	1452.9	1451.5	1447.7	1438.6	1441.8
7.5°	1441.2	1439.4	1432.5	1422.0	1424.1
10°	1425.6	1422.1	1412.1	1399.1	1401.2
12.5°	1405.5	1401.0	1387.1	1372.8	1375.2
15°	1380.3	1373.7	1356.3	1342.0	1344.6
17.5°	1351.3	1344.3	1323.4	1308.0	1313.1
20°	1318.5	1308.7	1284.9	1270.9	1275.8
22.5°	1282.5	1270.0	1245.5	1232.5	1237.0
25°	1242.8	1227.5	1203.0	1193.1	1198.1
27.5°	1199.9	1183.2	1158.7	1150.1	1157.4
30°	1154.3	1136.4	1110.2	1106.6	1114.3
32.5°	1107.5	1088.8	1063.3	1063.3	1071.2
35°	1058.6	1037.9	1015.1	1017.7	1027.2
37.5°	1006.0	986.5	964.2	973.4	982.6
40°	954.2	933.9	914.5	926.6	937.3
42.5°	900.2	880.9	864.0	878.3	890.6
45°	843.8	826.0	812.2	828.8	840.7
47.5°	787.4	769.6	759.9	778.4	792.0
50°	731.5	714.7	707.0	727.8	741.2
52.5°	673.0	656.9	653.5	675.0	691.1
55°	615.9	599.5	597.9	622.1	638.6
57.5°	557.2	544.6	543.6	570.3	590.2
60°	497.4	484.7	488.0	519.6	537.8
62.5°	439.3	426.6	430.6	465.7	477.7
65°	381.9	369.3	375.0	405.0	418.1
67.5°	325.5	313.6	323.8	351.2	359.4
70°	267.8	257.3	270.7	292.9	296.0
72.5°	213.8	204.6	221.0	234.9	234.6
75°	161.1	156.0	171.3	179.0	177.4
77.5°	115.2	112.5	125.6	129.6	128.2
80°	74.4	76.2	85.9	88.5	90.2
82.5°	43.2	46.7	54.1	62.1	63.9
85°	20.8	25.0	31.9	38.2	40.6
87.5°	7.2	10.0	13.2	14.6	14.2
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	15.53	17.11	15.89	17.42	17.74	15.87	17.45	16.24	17.77	18.08
	3H	16.96	18.38	17.34	18.71	19.07	17.46	18.89	17.84	19.21	19.57
	4H	17.38	18.72	17.78	19.07	19.44	17.92	19.26	18.32	19.61	19.98
	6H	17.60	18.83	18.01	19.20	19.59	18.17	19.40	18.58	19.77	20.16
	8H	17.63	18.81	18.05	19.20	19.60	18.23	19.41	18.66	19.80	20.20
	12H	17.63	18.76	18.06	19.14	19.57	18.28	19.41	18.71	19.79	20.22
4H	2H	16.06	17.39	16.46	17.74	18.12	16.34	17.68	16.74	18.03	18.40
	3H	17.68	18.79	18.09	19.19	19.59	18.13	19.25	18.54	19.64	20.05
	4H	18.18	19.18	18.61	19.60	20.03	18.70	19.70	19.13	20.11	20.55
	6H	18.47	19.35	18.93	19.79	20.24	19.04	19.91	19.49	20.35	20.81
	8H	18.52	19.34	18.99	19.78	20.25	19.13	19.95	19.60	20.39	20.86
	12H	18.54	19.27	19.03	19.75	20.22	19.21	19.94	19.69	20.42	20.89
8H	4H	18.40	19.21	18.86	19.66	20.12	18.86	19.68	19.33	20.12	20.59
	6H	18.75	19.43	19.25	19.91	20.39	19.28	19.95	19.77	20.44	20.91
	8H	18.83	19.44	19.35	19.95	20.43	19.42	20.02	19.93	20.53	21.02
	12H	18.88	19.42	19.39	19.91	20.47	19.55	20.08	20.06	20.57	21.14
12H	4H	18.40	19.13	18.89	19.61	20.08	18.86	19.59	19.34	20.07	20.54
	6H	18.77	19.37	19.28	19.88	20.37	19.28	19.88	19.79	20.39	20.88
	8H	18.89	19.42	19.40	19.91	20.47	19.46	19.99	19.97	20.49	21.05