

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: P1498283

Luminaire Tested: MAE-G-2-120-1STD-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498283
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-50-90-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

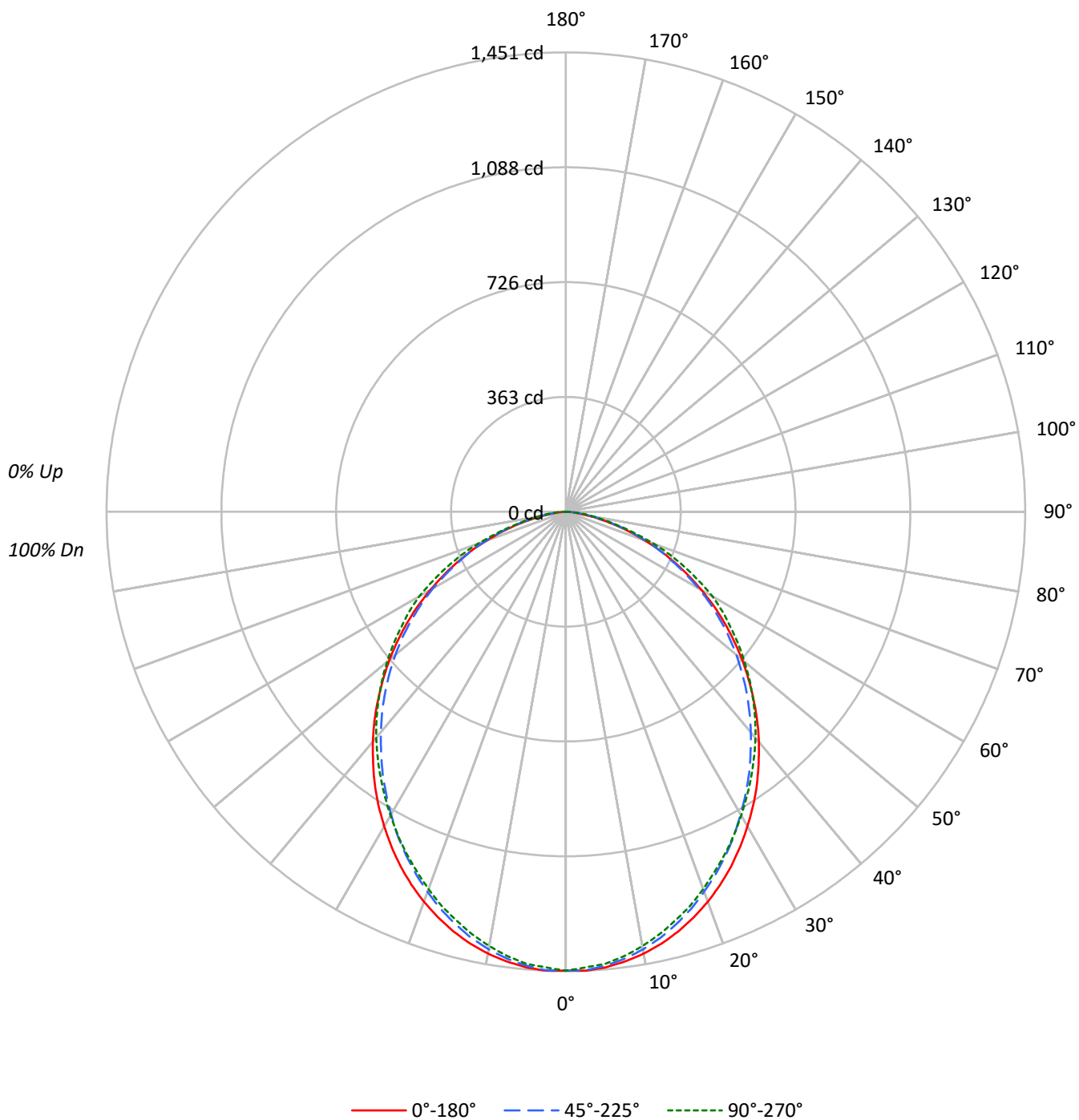
Lumens per Lamp: N/A
Luminaire Lumens: 3489.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3900	3900	3900
5°	3901	3887	3871
10°	3872	3835	3806
15°	3823	3756	3724
20°	3753	3657	3632
25°	3668	3551	3536
30°	3565	3429	3442
35°	3457	3315	3354
40°	3332	3193	3273
45°	3192	3072	3180
50°	3044	2942	3085
55°	2873	2788	2978
60°	2661	2610	2877
65°	2418	2373	2646
70°	2094	2117	2315
75°	1666	1770	1833
80°	1147	1323	1390
85°	639	982	1247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3192 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.9
10°-20°	380.4	10.9
20°-30°	554.1	15.9
30°-40°	639.3	18.3
40°-50°	634.3	18.2
50°-60°	544.0	15.6
60°-70°	382.0	10.9
70°-80°	181.1	5.2
80°-90°	37.7	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°	1070.6	30.7
0°-40°	1709.9	49.0
0°-60°	2888.2	82.8
0°-90°	3489.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3489.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1449	1449	1449	1449	1449	
5°	1444	1443	1439	1430	1433	137
15°	1372	1366	1348	1334	1337	387
25°	1235	1220	1196	1186	1191	568
35°	1052	1032	1009	1012	1021	657
45°	839	821	807	824	836	647
55°	612	596	594	618	635	547
65°	380	367	373	403	416	376
75°	160	155	170	178	176	173
85°	21	25	32	38	40	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.4	1449.4	1449.4	1449.4	1449.4
2.5°	1451.1	1452.1	1449.4	1439.0	1440.5
5°	1444.2	1442.9	1439.1	1430.1	1433.1
7.5°	1432.6	1430.8	1424.0	1413.5	1415.6
10°	1417.1	1413.6	1403.6	1390.7	1392.8
12.5°	1397.1	1392.6	1378.8	1364.6	1367.0
15°	1372.1	1365.5	1348.2	1334.0	1336.6
17.5°	1343.2	1336.3	1315.5	1300.1	1305.3
20°	1310.6	1300.8	1277.2	1263.3	1268.2
22.5°	1274.8	1262.4	1238.0	1225.1	1229.5
25°	1235.4	1220.1	1195.8	1185.9	1191.0
27.5°	1192.7	1176.2	1151.8	1143.3	1150.4
30°	1147.4	1129.7	1103.6	1099.9	1107.7
32.5°	1101.0	1082.2	1056.9	1056.9	1064.8
35°	1052.2	1031.7	1009.0	1011.5	1021.1
37.5°	999.9	980.6	958.5	967.6	976.7
40°	948.5	928.3	909.0	921.1	931.6
42.5°	894.8	875.6	858.8	872.9	885.2
45°	838.7	821.1	807.3	823.8	835.7
47.5°	782.7	765.0	755.4	773.7	787.3
50°	727.2	710.4	702.8	723.5	736.8
52.5°	669.1	653.0	649.6	671.0	687.0
55°	612.3	595.9	594.3	618.4	634.8
57.5°	553.9	541.3	540.3	566.8	586.7
60°	494.4	481.9	485.0	516.4	534.5
62.5°	436.6	424.1	428.0	462.9	474.9
65°	379.7	367.1	372.7	402.6	415.6
67.5°	323.6	311.7	321.9	349.1	357.3
70°	266.1	255.7	269.1	291.1	294.2
72.5°	212.5	203.4	219.6	233.5	233.2
75°	160.2	155.0	170.2	177.9	176.3
77.5°	114.5	111.8	124.9	128.8	127.6
80°	74.0	75.7	85.4	88.0	89.7
82.5°	43.0	46.4	53.8	61.8	63.5
85°	20.7	24.8	31.8	37.9	40.4
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	15.50	17.09	15.87	17.40	17.71	15.85	17.43	16.21	17.75	18.06
	3H	16.94	18.36	17.32	18.69	19.05	17.44	18.87	17.82	19.19	19.55
	4H	17.36	18.70	17.76	19.05	19.42	17.90	19.24	18.30	19.58	19.96
	6H	17.57	18.81	17.99	19.18	19.57	18.15	19.38	18.56	19.75	20.14
	8H	17.61	18.79	18.03	19.17	19.57	18.21	19.39	18.64	19.78	20.18
	12H	17.61	18.74	18.04	19.12	19.55	18.26	19.39	18.69	19.77	20.20
4H	2H	16.04	17.37	16.43	17.72	18.10	16.32	17.66	16.72	18.00	18.38
	3H	17.66	18.77	18.07	19.17	19.57	18.11	19.22	18.52	19.62	20.02
	4H	18.16	19.16	18.59	19.58	20.01	18.68	19.68	19.11	20.09	20.53
	6H	18.45	19.32	18.91	19.77	20.22	19.01	19.89	19.47	20.33	20.79
	8H	18.50	19.32	18.96	19.76	20.23	19.11	19.93	19.57	20.37	20.84
	12H	18.52	19.25	19.00	19.73	20.20	19.19	19.92	19.67	20.40	20.87
8H	4H	18.38	19.19	18.84	19.63	20.10	18.84	19.66	19.31	20.10	20.57
	6H	18.73	19.40	19.23	19.89	20.37	19.25	19.93	19.75	20.42	20.89
	8H	18.81	19.42	19.32	19.92	20.41	19.40	20.00	19.91	20.51	21.00
	12H	18.86	19.39	19.37	19.89	20.45	19.53	20.06	20.04	20.55	21.12
12H	4H	18.38	19.11	18.86	19.59	20.06	18.84	19.57	19.32	20.05	20.52
	6H	18.74	19.35	19.26	19.86	20.34	19.26	19.86	19.77	20.37	20.85
	8H	18.87	19.40	19.37	19.89	20.45	19.44	19.97	19.95	20.46	21.03

END OF REPORT