

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: P1498073

Luminaire Tested: MAE-G-2-120-1HI-LO-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498073
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-2-120-1HI-LO-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

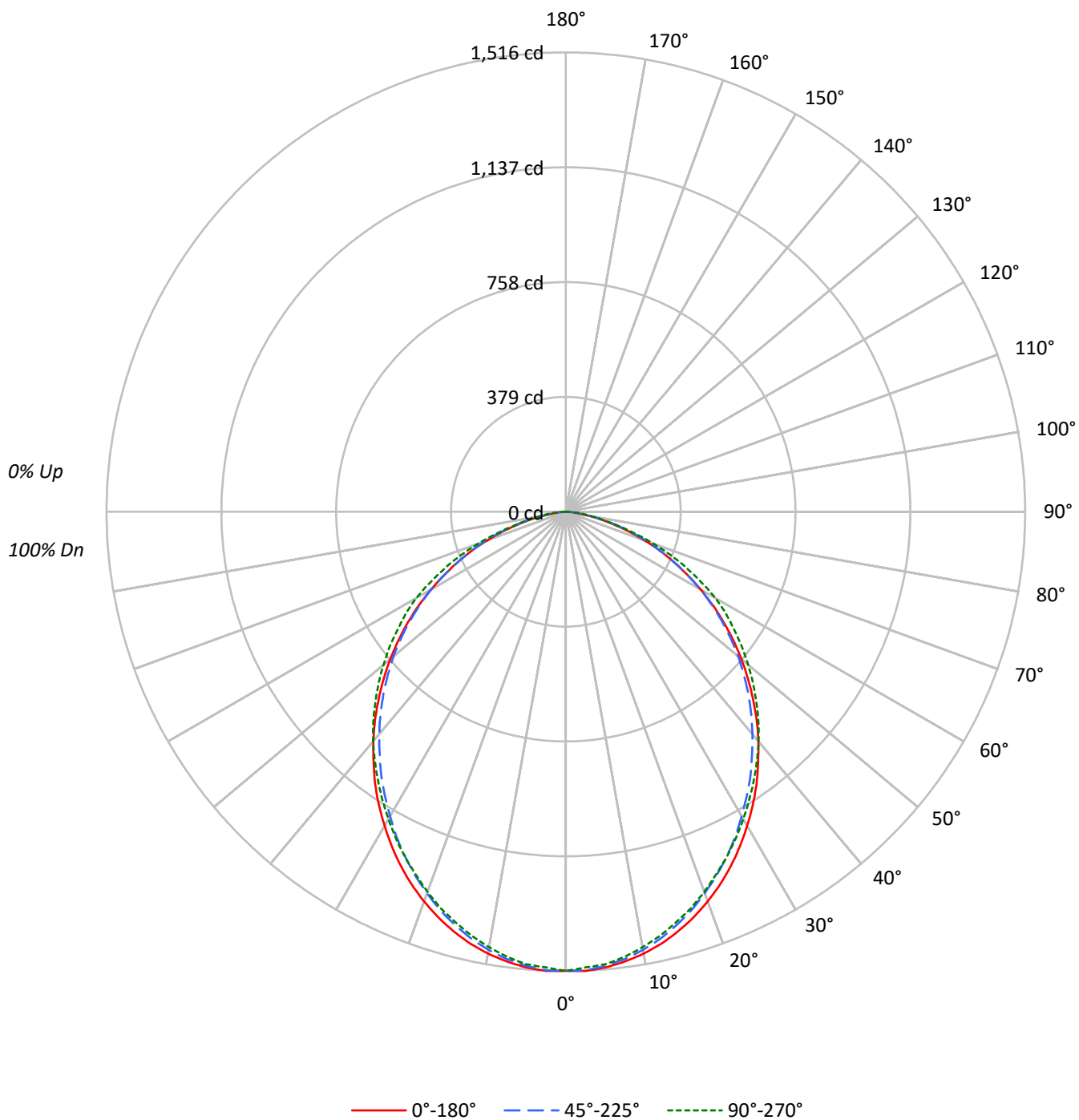
Lumens per Lamp: N/A
Luminaire Lumens: 3663.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	76	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4076	4076	4076
5°	4077	4063	4049
10°	4046	4012	3986
15°	3993	3933	3910
20°	3919	3836	3822
25°	3828	3728	3730
30°	3719	3605	3639
35°	3604	3489	3553
40°	3472	3365	3475
45°	3324	3240	3384
50°	3167	3106	3289
55°	2987	2944	3179
60°	2763	2758	3070
65°	2507	2503	2802
70°	2168	2220	2416
75°	1721	1830	1858
80°	1181	1331	1354
85°	655	963	1198

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3384 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	3.9
10°-20°	398.4	10.9
20°-30°	581.6	15.9
30°-40°	672.4	18.4
40°-50°	668.3	18.2
50°-60°	574.0	15.7
60°-70°	401.7	11.0
70°-80°	186.9	5.1
80°-90°	37.4	1.0
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°	1122.4	30.6
0°-40°	1794.7	49.0
0°-60°	3037.0	82.9
0°-90°	3663.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3663.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1509	1508	1504	1496	1499	143
15°	1433	1427	1412	1400	1403	404
25°	1289	1276	1256	1250	1256	593
35°	1097	1079	1062	1070	1082	685
45°	874	859	852	874	889	674
55°	637	623	628	658	678	568
65°	394	384	393	426	440	390
75°	166	162	176	182	179	179
85°	21	25	31	37	39	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1514.7	1514.7	1514.7	1514.7	1514.7
2.5°	1516.5	1517.5	1514.7	1504.3	1505.4
5°	1509.2	1507.7	1504.1	1495.7	1498.8
7.5°	1497.0	1495.3	1488.8	1479.3	1481.4
10°	1480.6	1477.3	1468.2	1456.6	1458.9
12.5°	1459.7	1455.7	1443.0	1430.7	1433.5
15°	1433.2	1427.3	1411.9	1400.0	1403.4
17.5°	1402.9	1396.9	1378.7	1366.1	1372.2
20°	1368.5	1359.9	1339.6	1328.6	1334.7
22.5°	1330.9	1319.8	1299.2	1289.7	1295.5
25°	1289.4	1275.8	1255.7	1249.7	1256.4
27.5°	1244.5	1229.8	1210.4	1205.9	1215.0
30°	1196.8	1181.4	1160.3	1161.1	1171.1
32.5°	1148.2	1131.9	1111.7	1116.8	1126.7
35°	1097.2	1079.2	1062.2	1069.8	1081.7
37.5°	1042.3	1025.6	1009.4	1024.2	1035.9
40°	988.4	970.9	957.8	976.0	989.2
42.5°	932.3	916.1	905.5	925.7	941.0
45°	873.5	859.0	851.5	874.3	889.1
47.5°	814.9	800.2	797.0	821.6	838.3
50°	756.6	743.2	741.9	769.0	785.7
52.5°	696.1	683.1	686.0	713.8	733.1
55°	636.7	623.3	627.6	658.1	677.7
57.5°	575.6	566.2	570.8	603.4	626.6
60°	513.4	503.7	512.5	549.6	570.4
62.5°	453.2	443.3	451.8	491.8	504.8
65°	393.7	383.6	393.1	425.7	440.0
67.5°	335.5	325.7	339.0	367.5	376.2
70°	275.6	267.1	282.1	304.5	307.1
72.5°	219.9	212.3	229.0	241.8	240.5
75°	165.5	161.5	176.0	181.6	178.7
77.5°	118.2	116.0	127.7	129.3	126.5
80°	76.2	78.0	85.9	86.2	87.4
82.5°	44.2	47.4	53.2	60.2	61.5
85°	21.2	25.1	31.2	36.8	38.8
87.5°	7.4	10.0	12.8	14.1	13.7
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	15.64	17.22	16.00	17.54	17.85	16.12	17.70	16.48	18.02	18.33
	3H	17.07	18.49	17.44	18.82	19.18	17.67	19.10	18.05	19.42	19.78
	4H	17.48	18.82	17.88	19.17	19.54	18.10	19.43	18.50	19.78	20.16
	6H	17.69	18.93	18.10	19.29	19.68	18.31	19.54	18.72	19.91	20.30
	8H	17.72	18.90	18.15	19.29	19.69	18.36	19.54	18.79	19.93	20.33
	12H	17.72	18.85	18.15	19.23	19.66	18.40	19.52	18.83	19.91	20.33
4H	2H	16.18	17.52	16.58	17.87	18.25	16.58	17.91	16.98	18.26	18.64
	3H	17.79	18.90	18.20	19.30	19.70	18.33	19.44	18.74	19.84	20.24
	4H	18.29	19.29	18.72	19.71	20.14	18.85	19.85	19.29	20.27	20.71
	6H	18.58	19.45	19.03	19.89	20.35	19.15	20.02	19.61	20.46	20.92
	8H	18.62	19.44	19.09	19.88	20.35	19.23	20.04	19.69	20.49	20.95
	12H	18.64	19.37	19.12	19.85	20.32	19.29	20.02	19.77	20.50	20.97
8H	4H	18.50	19.31	18.96	19.76	20.22	19.01	19.83	19.47	20.27	20.74
	6H	18.84	19.52	19.34	20.01	20.48	19.37	20.05	19.87	20.53	21.01
	8H	18.92	19.52	19.43	20.03	20.52	19.49	20.10	20.01	20.60	21.09
	12H	18.97	19.50	19.48	19.99	20.55	19.60	20.13	20.11	20.63	21.19
12H	4H	18.50	19.23	18.99	19.71	20.18	19.01	19.74	19.49	20.21	20.68
	6H	18.85	19.46	19.36	19.96	20.45	19.37	19.97	19.88	20.48	20.97
	8H	18.97	19.50	19.48	19.99	20.55	19.53	20.06	20.04	20.55	21.12