

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: P1498160

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498160
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-2-120-1LO-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

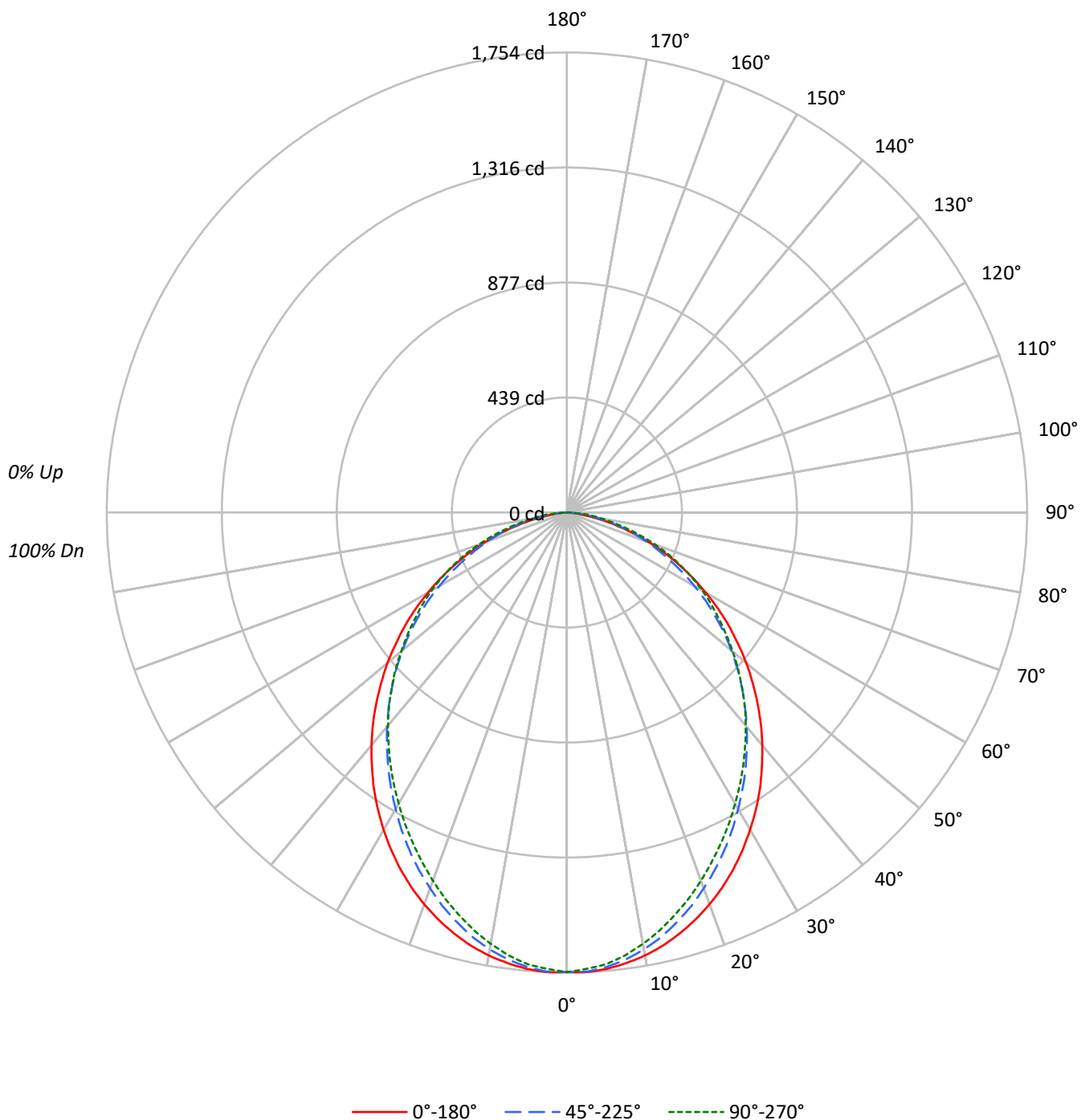
Lumens per Lamp: N/A
Luminaire Lumens: 4148.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	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	29	39	33	28	38	33	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4716	4716	4716
5°	4719	4698	4669
10°	4686	4623	4564
15°	4630	4507	4425
20°	4553	4366	4278
25°	4456	4218	4128
30°	4340	4055	3984
35°	4215	3901	3851
40°	4070	3744	3726
45°	3910	3588	3591
50°	3737	3426	3452
55°	3537	3241	3316
60°	3293	3030	3212
65°	3005	2774	3049
70°	2616	2530	2814
75°	2099	2223	2461
80°	1464	1815	2097
85°	827	1448	1948

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3910 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.3	4.0
10°-20°	456.1	11.0
20°-30°	659.2	15.9
30°-40°	755.0	18.2
40°-50°	743.9	17.9
50°-60°	634.8	15.3
60°-70°	451.5	10.9
70°-80°	229.3	5.5
80°-90°	53.9	1.3
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°	1279.7	30.8
0°-40°	2034.6	49.1
0°-60°	3413.4	82.3
0°-90°	4148.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1752	1752	1752	1752	1752	
5°	1747	1746	1739	1724	1728	166
15°	1662	1650	1618	1588	1588	468
25°	1501	1473	1420	1390	1390	691
35°	1283	1244	1188	1170	1172	802
45°	1027	989	943	940	944	792
55°	754	718	691	697	707	673
65°	472	444	436	466	479	467
75°	202	190	214	233	237	218
85°	27	34	47	58	63	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1752.5	1752.5	1752.5	1752.5	1752.5
2.5°	1754.4	1756.2	1752.5	1738.2	1741.6
5°	1746.8	1745.6	1739.3	1724.4	1728.5
7.5°	1733.1	1730.2	1718.9	1700.7	1703.2
10°	1715.0	1709.2	1691.7	1668.7	1670.2
12.5°	1691.3	1682.9	1658.1	1631.0	1632.2
15°	1661.8	1650.1	1617.7	1587.8	1588.5
17.5°	1628.0	1613.7	1573.9	1541.2	1544.0
20°	1589.8	1570.9	1524.6	1492.3	1493.8
22.5°	1547.4	1524.1	1474.6	1442.1	1442.0
25°	1500.7	1472.7	1420.5	1390.2	1390.3
27.5°	1450.5	1419.4	1364.3	1335.4	1337.1
30°	1396.8	1363.0	1305.1	1280.5	1282.2
32.5°	1341.4	1304.9	1247.2	1226.1	1227.9
35°	1283.0	1243.5	1187.6	1169.5	1172.4
37.5°	1220.7	1182.2	1126.3	1114.4	1116.6
40°	1158.7	1118.9	1065.8	1057.0	1060.7
42.5°	1094.2	1055.1	1005.0	998.8	1003.3
45°	1027.4	988.9	942.9	939.8	943.7
47.5°	959.7	922.1	881.3	880.1	885.9
50°	892.7	855.9	818.4	820.3	824.6
52.5°	821.7	786.9	755.4	758.4	766.4
55°	753.9	718.5	690.8	697.3	706.9
57.5°	683.2	652.3	627.5	639.1	652.5
60°	611.8	581.7	563.0	582.5	596.8
62.5°	541.3	512.2	498.4	525.4	537.8
65°	472.0	443.9	435.6	465.6	478.8
67.5°	402.6	377.4	378.5	410.5	420.4
70°	332.5	309.7	321.6	350.6	357.7
72.5°	266.1	247.5	267.7	291.6	295.7
75°	201.9	189.6	213.8	232.9	236.7
77.5°	144.9	138.5	162.9	178.7	183.0
80°	94.5	96.5	117.1	130.6	135.3
82.5°	55.4	61.1	77.7	92.8	97.6
85°	26.8	33.6	46.9	58.1	63.1
87.5°	9.1	13.7	19.8	22.1	21.4
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	16.23	17.81	16.59	18.13	18.44	16.06	17.65	16.43	17.96	18.28
	3H	17.70	19.13	18.08	19.45	19.82	17.81	19.24	18.19	19.56	19.93
	4H	18.14	19.48	18.54	19.83	20.21	18.40	19.74	18.80	20.09	20.47
	6H	18.37	19.61	18.79	19.98	20.37	18.80	20.04	19.21	20.41	20.80
	8H	18.41	19.60	18.84	19.98	20.38	18.93	20.11	19.35	20.50	20.90
	12H	18.42	19.55	18.85	19.93	20.36	19.02	20.15	19.45	20.54	20.96
4H	2H	16.71	18.05	17.11	18.40	18.78	16.58	17.92	16.98	18.27	18.64
	3H	18.38	19.50	18.79	19.89	20.29	18.54	19.65	18.95	20.05	20.45
	4H	18.91	19.91	19.34	20.33	20.76	19.25	20.26	19.69	20.68	21.11
	6H	19.22	20.10	19.68	20.54	21.00	19.77	20.65	20.22	21.09	21.55
	8H	19.28	20.11	19.75	20.55	21.01	19.94	20.76	20.40	21.20	21.67
	12H	19.31	20.05	19.79	20.52	20.99	20.08	20.81	20.56	21.29	21.76
8H	4H	19.15	19.97	19.61	20.41	20.87	19.46	20.28	19.92	20.72	21.19
	6H	19.54	20.22	20.03	20.70	21.18	20.07	20.75	20.57	21.24	21.72
	8H	19.63	20.24	20.15	20.75	21.24	20.31	20.92	20.82	21.43	21.91
	12H	19.69	20.23	20.20	20.72	21.29	20.52	21.06	21.03	21.55	22.11
12H	4H	19.17	19.90	19.65	20.38	20.85	19.46	20.20	19.94	20.67	21.14
	6H	19.57	20.18	20.08	20.69	21.18	20.09	20.69	20.60	21.20	21.69
	8H	19.71	20.25	20.22	20.74	21.30	20.37	20.91	20.88	21.40	21.96