

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: P1498919

Luminaire Tested: MAE-G-4-120-1HI-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498919
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-4-120-1HI-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

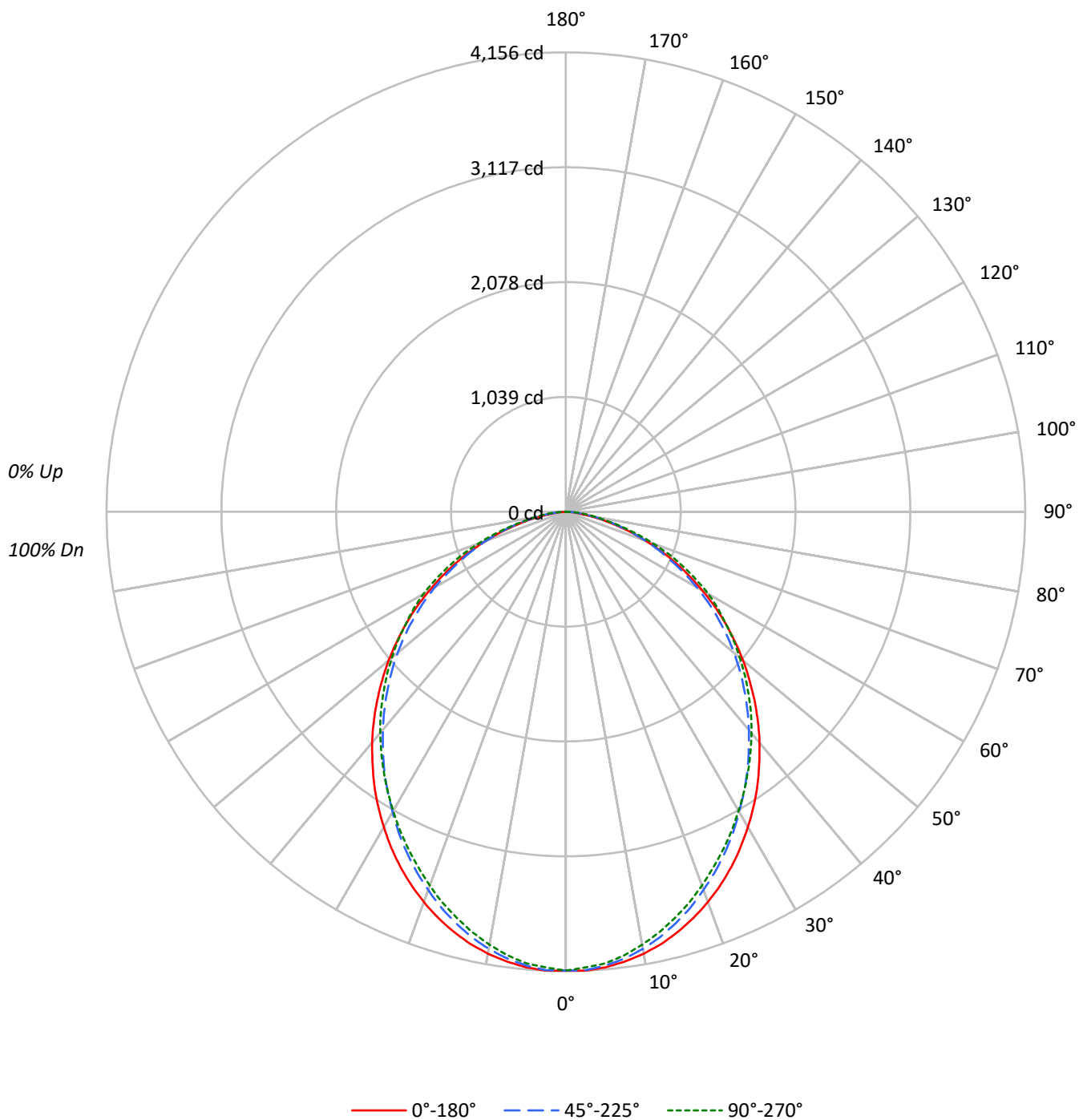
Lumens per Lamp: N/A
Luminaire Lumens: 9933.0 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	82	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5585	5585	5585
5°	5587	5566	5539
10°	5546	5486	5434
15°	5477	5364	5300
20°	5380	5214	5153
25°	5261	5052	5002
30°	5118	4872	4854
35°	4964	4702	4718
40°	4788	4523	4590
45°	4592	4346	4448
50°	4382	4158	4301
55°	4140	3938	4146
60°	3842	3685	4008
65°	3496	3358	3727
70°	3033	3019	3321
75°	2421	2569	2727
80°	1674	1984	2163
85°	937	1514	1968

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4592 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.6	3.9
10°-20°	1086.2	10.9
20°-30°	1577.8	15.9
30°-40°	1815.8	18.3
40°-50°	1797.2	18.1
50°-60°	1538.9	15.5
60°-70°	1085.3	10.9
70°-80°	527.3	5.3
80°-90°	114.8	1.2
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°	3053.6	30.7
0°-40°	4869.4	49.0
0°-60°	8205.5	82.6
0°-90°	9933.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9933.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4151	4151	4151	4151	4151	
5°	4136	4133	4121	4092	4101	392
15°	3932	3910	3851	3799	3805	1108
25°	3544	3492	3403	3360	3369	1631
35°	3022	2951	2863	2852	2872	1888
45°	2413	2348	2284	2312	2338	1861
55°	1765	1705	1679	1729	1767	1575
65°	1098	1051	1055	1135	1170	1087
75°	466	446	494	524	525	503
85°	61	74	98	119	128	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4150.9	4150.9	4150.9	4150.9	4150.9
2.5°	4155.6	4159.0	4150.9	4119.7	4125.1
5°	4136.5	4133.0	4120.7	4091.5	4100.7
7.5°	4103.5	4097.8	4075.6	4041.0	4047.1
10°	4059.6	4048.3	4015.3	3972.2	3977.2
12.5°	4002.9	3987.6	3941.0	3892.2	3897.6
15°	3931.7	3909.9	3850.6	3799.2	3804.7
17.5°	3850.1	3825.1	3753.5	3697.7	3709.5
20°	3757.7	3723.8	3641.4	3588.5	3598.7
22.5°	3655.8	3613.4	3526.9	3475.8	3483.9
25°	3543.6	3492.1	3403.3	3359.7	3369.3
27.5°	3422.8	3366.0	3274.8	3235.0	3249.5
30°	3293.9	3232.7	3136.1	3108.7	3124.6
32.5°	3161.5	3096.4	3001.1	2983.6	2999.5
35°	3022.3	2951.4	2862.8	2852.1	2872.2
37.5°	2873.5	2805.3	2717.7	2724.5	2743.3
40°	2726.1	2655.5	2575.4	2590.6	2613.1
42.5°	2572.7	2504.7	2431.6	2452.7	2479.2
45°	2413.1	2348.1	2284.2	2312.4	2337.6
47.5°	2252.8	2188.5	2136.6	2169.5	2199.5
50°	2093.6	2031.9	1986.5	2026.4	2054.6
52.5°	1926.7	1867.9	1835.3	1877.4	1913.7
55°	1764.8	1704.9	1678.8	1728.9	1767.3
57.5°	1597.5	1548.4	1525.8	1584.6	1632.6
60°	1427.6	1379.2	1369.5	1443.9	1489.4
62.5°	1261.5	1214.0	1209.8	1297.0	1329.6
65°	1098.1	1051.2	1054.8	1135.2	1170.5
67.5°	936.2	893.1	912.9	990.0	1013.5
70°	771.1	732.7	767.4	832.5	844.2
72.5°	616.2	583.9	630.8	676.5	679.4
75°	465.7	445.8	494.2	524.4	524.6
77.5°	333.3	322.8	367.6	388.1	389.3
80°	216.1	220.9	256.1	272.2	279.2
82.5°	126.0	137.1	164.6	191.9	199.3
85°	60.7	74.0	98.1	118.9	127.5
87.5°	20.9	29.8	40.9	45.4	44.1
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	16.77	18.36	17.14	18.67	18.99	16.94	18.53	17.31	18.84	19.15
	3H	18.22	19.65	18.60	19.97	20.34	18.59	20.01	18.97	20.34	20.70
	4H	18.65	19.99	19.05	20.34	20.71	19.09	20.43	19.49	20.78	21.15
	6H	18.87	20.11	19.28	20.47	20.87	19.39	20.62	19.80	20.99	21.38
	8H	18.91	20.09	19.33	20.48	20.88	19.47	20.65	19.90	21.04	21.44
	12H	18.91	20.04	19.34	20.42	20.85	19.53	20.66	19.96	21.05	21.48
4H	2H	17.29	18.63	17.69	18.98	19.35	17.43	18.77	17.83	19.11	19.49
	3H	18.92	20.04	19.33	20.44	20.84	19.28	20.39	19.69	20.79	21.19
	4H	19.44	20.44	19.87	20.86	21.29	19.89	20.90	20.32	21.31	21.75
	6H	19.74	20.61	20.19	21.05	21.51	20.29	21.16	20.75	21.61	22.06
	8H	19.79	20.61	20.25	21.05	21.52	20.41	21.23	20.87	21.67	22.14
	12H	19.82	20.55	20.30	21.02	21.49	20.51	21.24	20.99	21.72	22.19
8H	4H	19.66	20.48	20.12	20.92	21.39	20.07	20.89	20.53	21.33	21.80
	6H	20.03	20.70	20.52	21.19	21.67	20.55	21.23	21.05	21.72	22.19
	8H	20.12	20.72	20.63	21.23	21.72	20.73	21.33	21.24	21.84	22.33
	12H	20.17	20.70	20.68	21.20	21.76	20.88	21.42	21.39	21.91	22.47
12H	4H	19.67	20.40	20.15	20.88	21.35	20.07	20.80	20.55	21.28	21.75
	6H	20.05	20.66	20.56	21.16	21.65	20.56	21.16	21.07	21.67	22.16
	8H	20.18	20.71	20.69	21.20	21.77	20.78	21.31	21.29	21.80	22.37