

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: P1498916

Luminaire Tested: MAE-G-4-120-1HI-HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498916
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-30-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

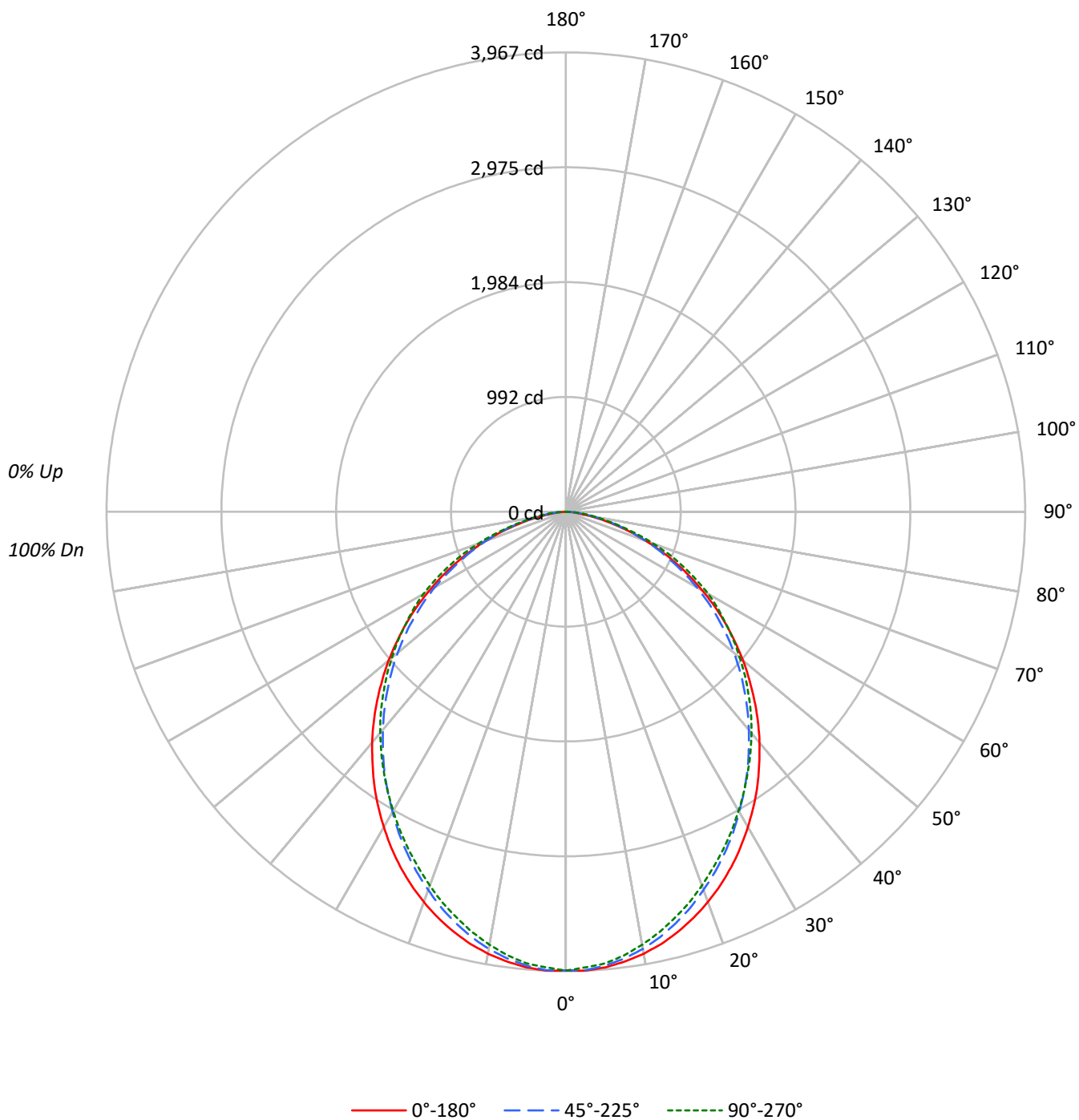
Lumens per Lamp: N/A
Luminaire Lumens: 9481.0 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	82	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64
5	78	65	56	50	75	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5331	5331	5331
5°	5333	5312	5287
10°	5294	5236	5187
15°	5227	5120	5059
20°	5136	4977	4918
25°	5022	4823	4774
30°	4885	4651	4634
35°	4738	4488	4503
40°	4570	4318	4381
45°	4383	4149	4246
50°	4183	3969	4105
55°	3951	3759	3957
60°	3667	3518	3825
65°	3337	3205	3557
70°	2895	2882	3170
75°	2311	2452	2603
80°	1598	1894	2065
85°	892	1445	1879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4383 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	371.9	3.9
10°-20°	1036.8	10.9
20°-30°	1506.0	15.9
30°-40°	1733.2	18.3
40°-50°	1715.5	18.1
50°-60°	1468.8	15.5
60°-70°	1036.0	10.9
70°-80°	503.3	5.3
80°-90°	109.6	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°	2914.7	30.7
0°-40°	4647.9	49.0
0°-60°	7832.2	82.6
0°-90°	9481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3962	3962	3962	3962	3962	
5°	3948	3945	3933	3905	3914	374
15°	3753	3732	3675	3626	3632	1057
25°	3382	3333	3248	3207	3216	1557
35°	2885	2817	2732	2722	2742	1802
45°	2303	2241	2180	2207	2231	1777
55°	1684	1627	1602	1650	1687	1504
65°	1048	1003	1007	1084	1117	1037
75°	444	426	472	500	501	480
85°	58	71	94	114	122	82
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3961.9	3961.9	3961.9	3961.9	3961.9
2.5°	3966.6	3969.9	3961.9	3932.3	3937.4
5°	3948.4	3944.9	3933.1	3905.3	3914.2
7.5°	3916.8	3911.4	3890.1	3857.2	3862.9
10°	3875.0	3864.1	3832.6	3791.4	3796.3
12.5°	3820.7	3806.2	3761.8	3715.1	3720.3
15°	3752.8	3732.0	3675.4	3626.4	3631.6
17.5°	3674.9	3651.1	3582.7	3529.5	3540.7
20°	3586.7	3554.4	3475.7	3425.2	3434.9
22.5°	3489.5	3448.9	3366.4	3317.7	3325.4
25°	3382.5	3333.2	3248.4	3206.8	3215.9
27.5°	3267.1	3212.9	3125.7	3087.8	3101.7
30°	3144.0	3085.6	2993.3	2967.2	2982.4
32.5°	3017.6	2955.6	2864.5	2847.8	2863.0
35°	2884.8	2817.1	2732.4	2722.3	2741.5
37.5°	2742.7	2677.7	2594.0	2600.5	2618.5
40°	2602.1	2534.7	2458.2	2472.6	2494.2
42.5°	2455.8	2390.7	2321.0	2341.2	2366.3
45°	2303.3	2241.3	2180.3	2207.2	2231.2
47.5°	2150.2	2088.9	2039.3	2070.8	2099.4
50°	1998.4	1939.5	1896.1	1934.1	1961.1
52.5°	1839.0	1782.8	1751.8	1791.9	1826.6
55°	1684.5	1627.4	1602.4	1650.2	1686.9
57.5°	1524.8	1477.9	1456.3	1512.6	1558.3
60°	1362.7	1316.5	1307.2	1378.3	1421.6
62.5°	1204.2	1158.9	1154.7	1237.9	1269.1
65°	1048.1	1003.4	1006.8	1083.5	1117.2
67.5°	893.6	852.4	871.3	944.9	967.4
70°	736.0	699.4	732.5	794.6	805.8
72.5°	588.2	557.3	602.2	645.6	648.4
75°	444.5	425.5	471.7	500.5	500.7
77.5°	318.1	308.2	350.9	370.4	371.6
80°	206.3	210.9	244.4	259.8	266.5
82.5°	120.3	130.9	157.1	183.2	190.1
85°	57.8	70.6	93.6	113.5	121.7
87.5°	20.0	28.5	39.1	43.3	42.2
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	16.61	18.20	16.98	18.51	18.82	16.78	18.37	17.15	18.68	18.99
	3H	18.06	19.49	18.44	19.81	20.17	18.43	19.85	18.80	20.18	20.54
	4H	18.49	19.83	18.89	20.18	20.55	18.93	20.27	19.33	20.61	20.99
	6H	18.71	19.95	19.12	20.31	20.70	19.22	20.46	19.64	20.83	21.22
	8H	18.74	19.92	19.17	20.31	20.71	19.31	20.49	19.74	20.88	21.28
	12H	18.75	19.88	19.18	20.26	20.69	19.37	20.50	19.80	20.88	21.31
4H	2H	17.13	18.47	17.53	18.81	19.19	17.27	18.60	17.67	18.95	19.33
	3H	18.76	19.88	19.17	20.28	20.68	19.12	20.23	19.53	20.63	21.03
	4H	19.28	20.28	19.71	20.69	21.13	19.73	20.73	20.16	21.15	21.59
	6H	19.58	20.45	20.03	20.89	21.35	20.13	21.00	20.58	21.44	21.90
	8H	19.63	20.45	20.09	20.89	21.36	20.25	21.07	20.71	21.51	21.98
	12H	19.65	20.39	20.14	20.86	21.33	20.35	21.08	20.83	21.56	22.03
8H	4H	19.50	20.32	19.96	20.76	21.23	19.91	20.73	20.37	21.17	21.64
	6H	19.87	20.54	20.36	21.03	21.51	20.39	21.07	20.88	21.55	22.03
	8H	19.96	20.56	20.47	21.07	21.56	20.57	21.17	21.08	21.68	22.17
	12H	20.01	20.54	20.52	21.03	21.60	20.72	21.26	21.23	21.75	22.31
12H	4H	19.51	20.24	19.99	20.72	21.19	19.91	20.64	20.39	21.12	21.59
	6H	19.89	20.49	20.40	21.00	21.49	20.39	21.00	20.91	21.51	22.00
	8H	20.02	20.55	20.52	21.04	21.61	20.61	21.15	21.12	21.64	22.20