

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: P1498928

Luminaire Tested: MAE-G-4-120-1HI-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498928
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-40-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

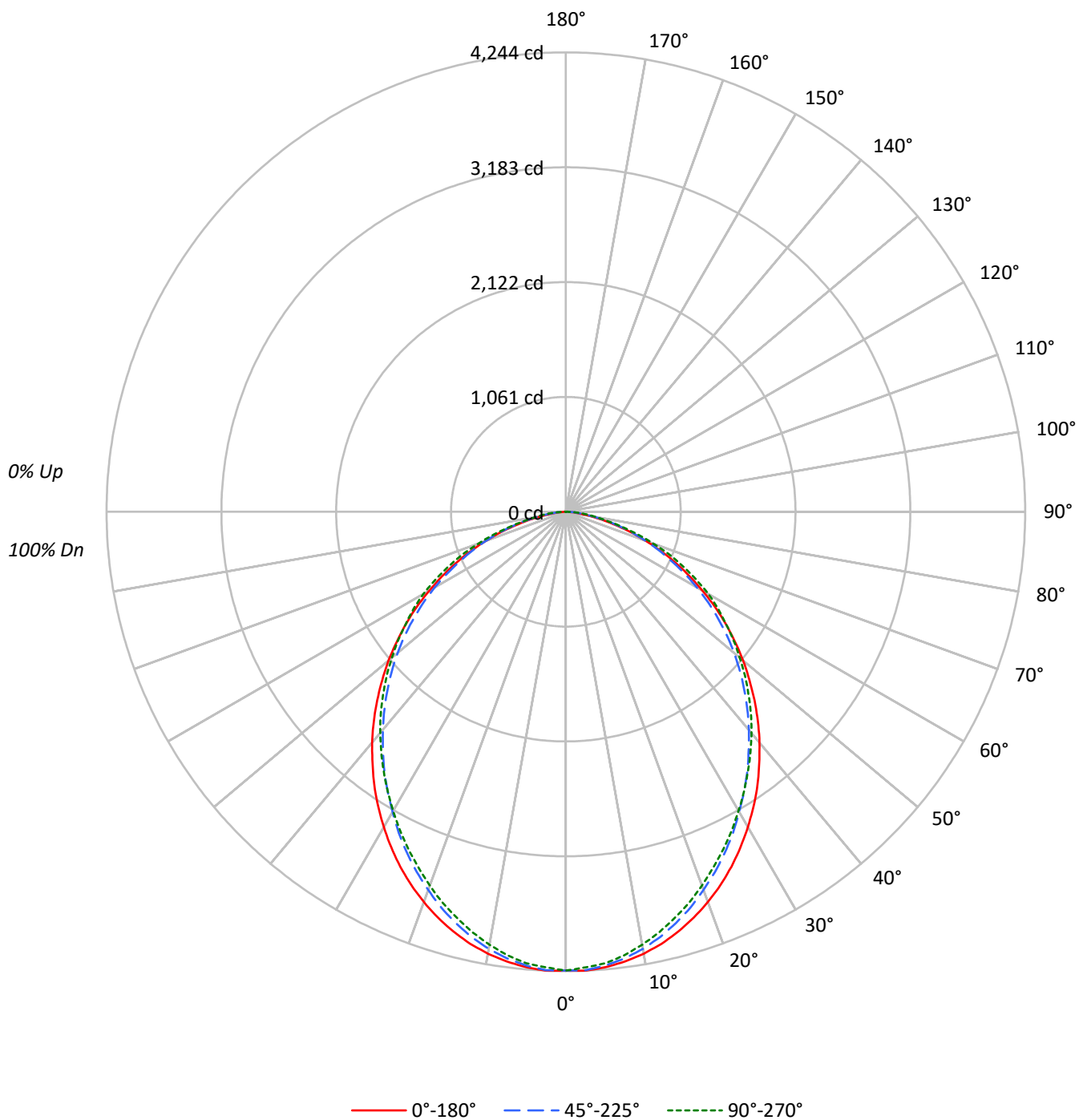
Lumens per Lamp: N/A
Luminaire Lumens: 10143.0 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	5703	5703	5703
5°	5705	5683	5656
10°	5664	5602	5549
15°	5593	5477	5412
20°	5494	5324	5262
25°	5372	5159	5108
30°	5226	4975	4957
35°	5069	4801	4817
40°	4889	4619	4687
45°	4689	4438	4542
50°	4475	4246	4392
55°	4227	4021	4233
60°	3923	3763	4093
65°	3570	3429	3805
70°	3098	3083	3391
75°	2472	2624	2785
80°	1710	2026	2209
85°	956	1545	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4689 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	397.9	3.9
10°-20°	1109.1	10.9
20°-30°	1611.2	15.9
30°-40°	1854.2	18.3
40°-50°	1835.3	18.1
50°-60°	1571.4	15.5
60°-70°	1108.3	10.9
70°-80°	538.5	5.3
80°-90°	117.2	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°	3118.2	30.7
0°-40°	4972.4	49.0
0°-60°	8379.0	82.6
0°-90°	10143.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10143.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4239	4239	4239	4239	4239	
5°	4224	4220	4208	4178	4187	401
15°	4015	3992	3932	3880	3885	1131
25°	3619	3566	3475	3431	3440	1665
35°	3086	3014	2923	2912	2933	1928
45°	2464	2398	2333	2361	2387	1901
55°	1802	1741	1714	1765	1805	1609
65°	1121	1074	1077	1159	1195	1110
75°	476	455	505	535	536	513
85°	62	76	100	122	130	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4238.6	4238.6	4238.6	4238.6	4238.6
2.5°	4243.5	4247.0	4238.6	4206.8	4212.3
5°	4224.0	4220.4	4207.8	4178.0	4187.4
7.5°	4190.2	4184.4	4161.7	4126.5	4132.6
10°	4145.4	4133.8	4100.1	4056.1	4061.3
12.5°	4087.5	4071.9	4024.4	3974.5	3980.0
15°	4014.9	3992.5	3932.0	3879.6	3885.2
17.5°	3931.5	3906.0	3832.8	3775.9	3787.9
20°	3837.2	3802.6	3718.4	3664.4	3674.8
22.5°	3733.1	3689.7	3601.4	3549.4	3557.5
25°	3618.6	3565.9	3475.2	3430.7	3440.5
27.5°	3495.1	3437.1	3344.0	3303.3	3318.3
30°	3363.5	3301.1	3202.3	3174.4	3190.7
32.5°	3228.3	3161.9	3064.6	3046.6	3062.9
35°	3086.3	3013.8	2923.2	2912.4	2932.9
37.5°	2934.3	2864.6	2775.1	2782.1	2801.3
40°	2783.7	2711.6	2629.9	2645.3	2668.3
42.5°	2627.2	2557.7	2483.0	2504.6	2531.6
45°	2464.2	2397.8	2332.6	2361.3	2387.0
47.5°	2300.4	2234.8	2181.8	2215.4	2246.0
50°	2138.0	2074.9	2028.5	2069.2	2098.1
52.5°	1967.5	1907.3	1874.1	1917.1	1954.1
55°	1802.1	1741.0	1714.2	1765.3	1804.7
57.5°	1631.3	1581.2	1558.0	1618.1	1667.2
60°	1457.8	1408.3	1398.5	1474.5	1520.9
62.5°	1288.2	1239.8	1235.3	1324.4	1357.8
65°	1121.3	1073.5	1077.1	1159.2	1195.2
67.5°	956.0	911.9	932.2	1011.0	1035.0
70°	787.4	748.3	783.7	850.1	862.1
72.5°	629.2	596.3	644.1	690.8	693.7
75°	475.5	455.2	504.7	535.4	535.7
77.5°	340.4	329.7	375.4	396.3	397.5
80°	220.7	225.5	261.5	278.0	285.1
82.5°	128.7	140.1	168.2	196.0	203.4
85°	61.9	75.5	100.1	121.5	130.2
87.5°	21.4	30.5	41.8	46.3	45.1
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	16.85	18.43	17.21	18.74	19.06	17.02	18.60	17.38	18.91	19.23
	3H	18.30	19.72	18.67	20.05	20.41	18.66	20.09	19.04	20.41	20.77
	4H	18.72	20.06	19.12	20.41	20.79	19.16	20.50	19.56	20.85	21.23
	6H	18.94	20.18	19.36	20.55	20.94	19.46	20.70	19.87	21.06	21.45
	8H	18.98	20.16	19.40	20.55	20.95	19.55	20.73	19.97	21.12	21.51
	12H	18.98	20.11	19.41	20.50	20.92	19.61	20.74	20.04	21.12	21.55
4H	2H	17.36	18.70	17.76	19.05	19.43	17.50	18.84	17.90	19.19	19.56
	3H	19.00	20.11	19.41	20.51	20.91	19.35	20.46	19.76	20.86	21.26
	4H	19.51	20.51	19.94	20.93	21.37	19.96	20.97	20.40	21.38	21.82
	6H	19.81	20.68	20.27	21.13	21.58	20.36	21.24	20.82	21.68	22.14
	8H	19.87	20.68	20.33	21.13	21.59	20.48	21.30	20.95	21.74	22.21
	12H	19.89	20.62	20.37	21.10	21.57	20.58	21.31	21.06	21.79	22.26
8H	4H	19.73	20.55	20.20	20.99	21.46	20.15	20.96	20.61	21.41	21.87
	6H	20.10	20.78	20.60	21.27	21.74	20.62	21.30	21.12	21.79	22.27
	8H	20.19	20.79	20.70	21.30	21.79	20.80	21.41	21.31	21.91	22.40
	12H	20.24	20.78	20.75	21.27	21.83	20.96	21.49	21.47	21.98	22.55
12H	4H	19.75	20.48	20.23	20.95	21.42	20.14	20.88	20.63	21.35	21.82
	6H	20.12	20.73	20.63	21.24	21.72	20.63	21.24	21.14	21.74	22.23
	8H	20.25	20.79	20.76	21.28	21.84	20.85	21.38	21.36	21.88	22.44