

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: P1498946

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498946
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-LO-35-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

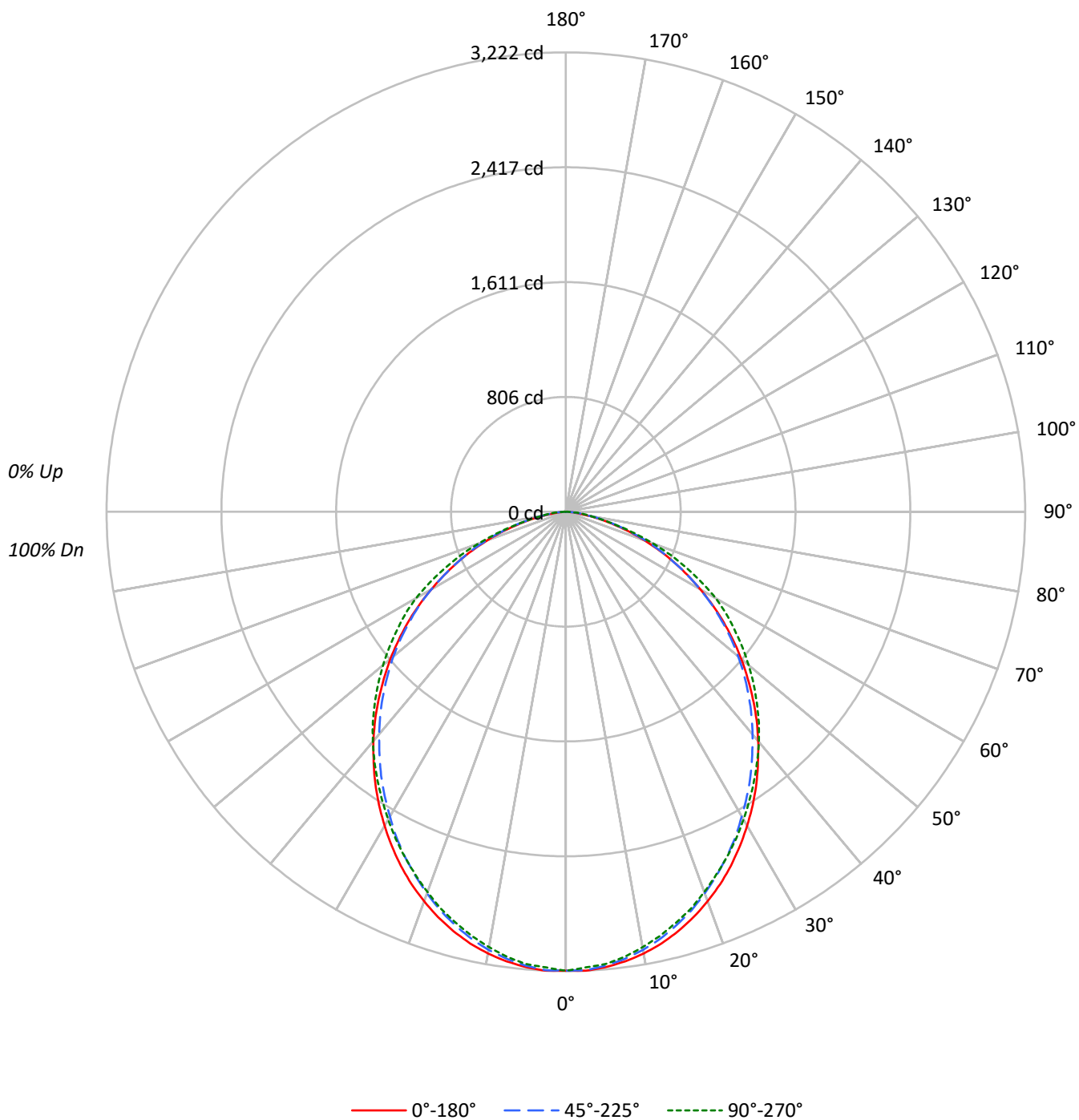
Lumens per Lamp: N/A
Luminaire Lumens: 7788.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	76	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	28	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4330	4330	4330
5°	4331	4317	4302
10°	4298	4263	4236
15°	4242	4180	4156
20°	4163	4077	4064
25°	4067	3964	3968
30°	3950	3833	3872
35°	3828	3711	3782
40°	3687	3579	3700
45°	3530	3447	3603
50°	3364	3304	3503
55°	3171	3133	3387
60°	2933	2934	3270
65°	2661	2662	2982
70°	2301	2358	2566
75°	1826	1942	1966
80°	1251	1408	1425
85°	693	1014	1260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3603 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.5	3.9
10°-20°	846.8	10.9
20°-30°	1236.5	15.9
30°-40°	1429.9	18.4
40°-50°	1421.6	18.3
50°-60°	1221.2	15.7
60°-70°	854.2	11.0
70°-80°	396.4	5.1
80°-90°	78.9	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°	2385.8	30.6
0°-40°	3815.7	49.0
0°-60°	6458.4	82.9
0°-90°	7788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3218	3218	3218	3218	3218	
5°	3207	3204	3196	3178	3185	304
15°	3045	3033	3001	2976	2984	858
25°	2739	2711	2670	2658	2673	1260
35°	2330	2293	2259	2277	2303	1456
45°	1855	1826	1812	1862	1894	1431
55°	1352	1324	1335	1402	1444	1207
65°	836	815	836	906	936	827
75°	351	343	374	385	378	380
85°	45	53	66	77	82	64
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3218.5	3218.5	3218.5	3218.5	3218.5
2.5°	3222.3	3224.5	3218.5	3196.5	3198.8
5°	3206.7	3203.6	3196.1	3178.4	3184.9
7.5°	3180.7	3177.2	3163.7	3143.7	3148.4
10°	3146.0	3139.1	3120.1	3095.8	3100.8
12.5°	3101.5	3093.2	3066.9	3041.1	3047.4
15°	3045.3	3033.0	3000.8	2976.5	2983.9
17.5°	2980.7	2968.5	2930.8	2904.8	2918.0
20°	2907.5	2889.8	2847.7	2825.4	2838.5
22.5°	2827.5	2804.7	2762.0	2742.9	2755.8
25°	2739.4	2711.0	2669.8	2658.3	2673.0
27.5°	2643.9	2613.4	2573.8	2565.4	2585.2
30°	2542.5	2510.3	2467.4	2470.6	2492.2
32.5°	2439.1	2405.4	2364.4	2376.5	2398.2
35°	2330.5	2293.3	2259.2	2276.6	2302.7
37.5°	2214.0	2179.5	2147.0	2180.0	2205.4
40°	2099.4	2063.4	2037.5	2077.6	2106.3
42.5°	1980.1	1946.7	1926.0	1970.8	2003.8
45°	1855.1	1825.5	1811.5	1861.5	1893.7
47.5°	1730.6	1700.4	1695.7	1749.6	1785.8
50°	1606.9	1579.3	1578.5	1637.6	1673.7
52.5°	1478.4	1451.6	1459.6	1520.0	1562.1
55°	1351.9	1324.5	1335.4	1401.8	1444.0
57.5°	1222.2	1203.3	1214.5	1285.1	1335.2
60°	1090.0	1070.5	1090.4	1170.6	1215.2
62.5°	962.0	942.0	961.4	1047.3	1075.1
65°	835.7	815.1	836.1	906.0	936.5
67.5°	712.2	691.9	720.9	781.8	800.1
70°	584.9	567.4	599.5	647.1	652.2
72.5°	466.6	451.0	486.5	513.3	510.1
75°	351.2	343.0	373.5	384.9	378.1
77.5°	250.7	246.3	270.6	273.0	266.8
80°	161.4	165.4	181.7	181.6	183.9
82.5°	93.6	100.3	112.2	126.8	129.3
85°	44.9	53.0	65.7	77.4	81.6
87.5°	15.7	21.1	26.9	29.6	28.9
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	15.85	17.43	16.21	17.74	18.06	16.34	17.93	16.71	18.24	18.56
	3H	17.27	18.70	17.65	19.02	19.38	17.89	19.32	18.27	19.64	20.00
	4H	17.69	19.02	18.09	19.37	19.75	18.31	19.65	18.71	20.00	20.37
	6H	17.90	19.13	18.31	19.50	19.89	18.52	19.76	18.93	20.12	20.51
	8H	17.93	19.10	18.35	19.49	19.89	18.57	19.75	19.00	20.14	20.54
	12H	17.93	19.06	18.36	19.44	19.87	18.60	19.73	19.03	20.11	20.54
4H	2H	16.39	17.73	16.79	18.08	18.46	16.80	18.14	17.20	18.49	18.86
	3H	18.00	19.11	18.41	19.51	19.91	18.55	19.66	18.96	20.06	20.46
	4H	18.50	19.50	18.93	19.91	20.35	19.07	20.07	19.50	20.48	20.92
	6H	18.78	19.65	19.24	20.09	20.55	19.36	20.23	19.81	20.67	21.13
	8H	18.83	19.64	19.29	20.09	20.55	19.44	20.25	19.90	20.69	21.16
	12H	18.85	19.58	19.33	20.05	20.52	19.50	20.23	19.98	20.70	21.17
8H	4H	18.71	19.52	19.17	19.96	20.43	19.23	20.04	19.69	20.48	20.95
	6H	19.05	19.72	19.55	20.21	20.69	19.58	20.25	20.07	20.74	21.22
	8H	19.13	19.73	19.64	20.24	20.72	19.70	20.30	20.21	20.81	21.29
	12H	19.17	19.70	19.68	20.20	20.76	19.80	20.33	20.31	20.83	21.39
12H	4H	18.71	19.44	19.19	19.91	20.39	19.22	19.95	19.70	20.43	20.90
	6H	19.06	19.66	19.57	20.17	20.66	19.58	20.18	20.09	20.69	21.17
	8H	19.17	19.70	19.68	20.20	20.76	19.73	20.26	20.24	20.76	21.32