

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: P1498679

Luminaire Tested: MAE-G-2-120-3HI-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498679
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

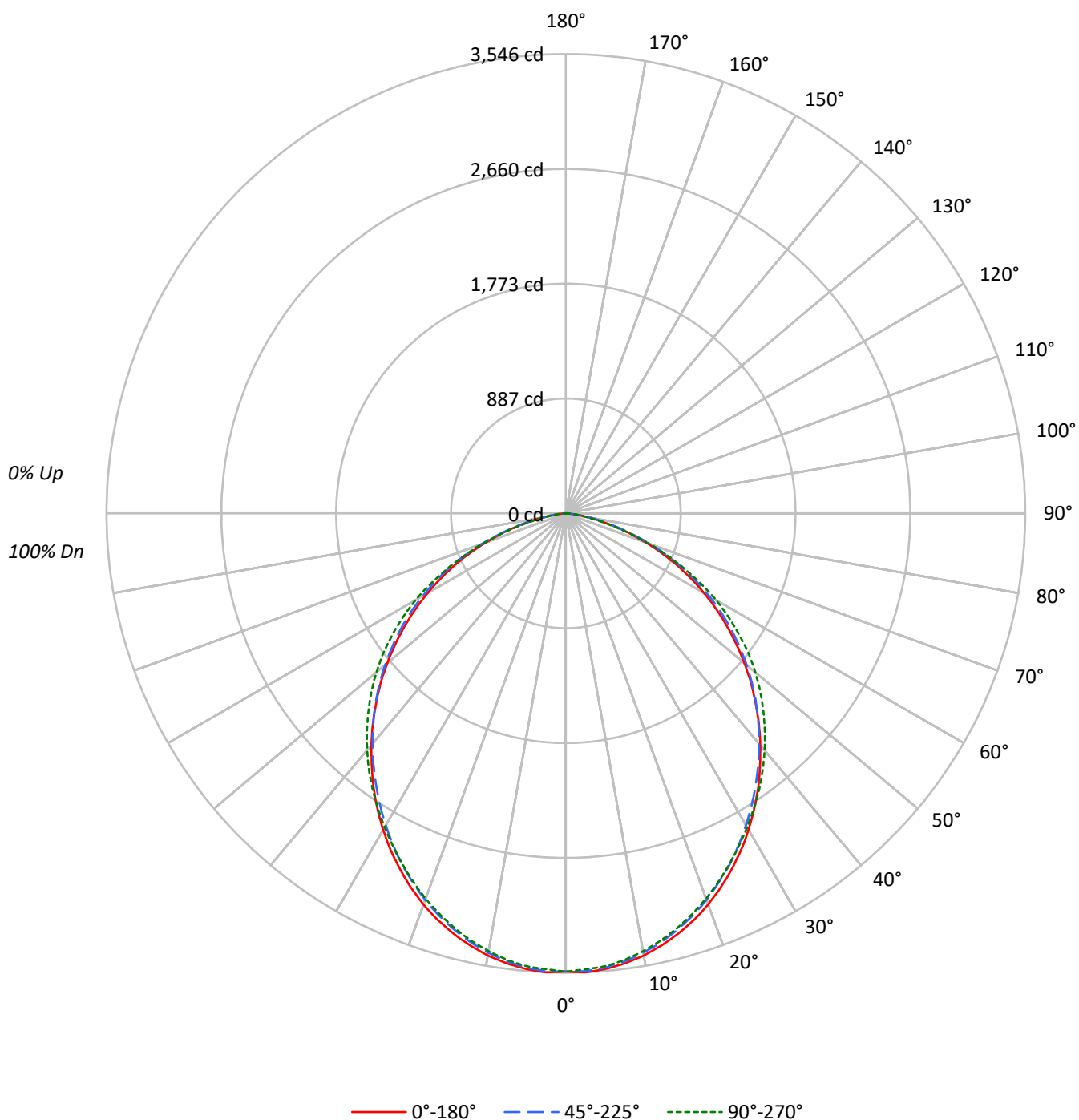
Lumens per Lamp: N/A
Luminaire Lumens: 8738.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 102.6
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9519	9519	9519
5°	9537	9507	9479
10°	9470	9414	9377
15°	9354	9269	9235
20°	9200	9092	9062
25°	8997	8881	8870
30°	8764	8641	8693
35°	8501	8394	8544
40°	8204	8154	8384
45°	7882	7907	8205
50°	7530	7626	7992
55°	7134	7298	7667
60°	6641	6874	7218
65°	6029	6293	6417
70°	5187	5442	5355
75°	4115	4274	3915
80°	2758	2727	2439
85°	1405	1646	1958

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8205 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	333.2	3.8
10°-20°	937.5	10.7
20°-30°	1379.0	15.8
30°-40°	1608.0	18.4
40°-50°	1614.1	18.5
50°-60°	1396.4	16.0
60°-70°	969.4	11.1
70°-80°	429.1	4.9
80°-90°	71.3	0.8
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°	2649.6	30.3
0°-40°	4257.6	48.7
0°-60°	7268.1	83.2
0°-90°	8738.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8738.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3537	3537	3537	3537	3537	
5°	3530	3514	3520	3505	3509	335
15°	3358	3337	3327	3309	3315	946
25°	3030	3006	2991	2974	2987	1395
35°	2588	2561	2555	2573	2601	1617
45°	2071	2054	2078	2126	2156	1598
55°	1520	1510	1556	1614	1634	1357
65°	947	950	988	1005	1008	936
75°	396	402	411	390	376	425
85°	46	48	53	60	63	68
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3537.3	3537.3	3537.3	3537.3	3537.3
2.5°	3546.4	3530.7	3537.3	3525.9	3522.6
5°	3530.4	3514.5	3519.6	3504.8	3509.2
7.5°	3502.9	3486.4	3488.1	3472.3	3476.7
10°	3465.6	3446.6	3445.2	3428.0	3431.5
12.5°	3416.0	3396.9	3391.9	3372.5	3378.7
15°	3357.7	3337.1	3327.2	3309.1	3314.8
17.5°	3290.1	3267.9	3256.2	3234.7	3243.9
20°	3212.6	3189.1	3175.0	3152.0	3164.4
22.5°	3125.7	3101.7	3085.0	3065.4	3078.2
25°	3030.0	3006.5	2991.2	2973.9	2987.4
27.5°	2929.4	2903.3	2888.7	2878.3	2893.0
30°	2820.6	2794.1	2780.8	2776.7	2797.5
32.5°	2705.7	2680.0	2669.8	2676.8	2700.4
35°	2587.8	2561.0	2555.1	2573.2	2600.8
37.5°	2461.0	2439.6	2439.6	2468.7	2496.7
40°	2335.5	2313.1	2321.1	2357.4	2386.8
42.5°	2205.7	2186.8	2200.9	2245.7	2273.1
45°	2071.1	2054.3	2077.7	2126.1	2156.1
47.5°	1939.3	1921.6	1951.9	2004.2	2036.3
50°	1798.6	1785.7	1821.5	1879.3	1909.1
52.5°	1659.5	1646.9	1689.5	1749.8	1778.3
55°	1520.5	1509.9	1555.5	1613.9	1634.1
57.5°	1376.8	1373.4	1419.5	1470.2	1491.0
60°	1234.0	1231.6	1277.3	1323.0	1341.1
62.5°	1091.0	1092.0	1134.5	1170.1	1175.1
65°	946.8	949.7	988.3	1005.2	1007.8
67.5°	801.2	807.7	841.3	847.5	845.9
70°	659.2	663.4	691.7	690.3	680.6
72.5°	521.3	528.8	544.9	536.1	521.6
75°	395.8	401.9	411.1	390.4	376.5
77.5°	278.8	283.3	284.5	262.3	252.9
80°	178.0	183.6	176.0	163.8	157.4
82.5°	99.1	104.1	97.4	102.9	105.5
85°	45.5	48.0	53.3	60.5	63.4
87.5°	15.5	18.0	21.7	23.0	21.3
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	18.76	20.34	19.12	20.66	20.97	19.25	20.83	19.61	21.15	21.46
	3H	20.20	21.63	20.58	21.95	22.31	20.63	22.05	21.01	22.38	22.74
	4H	20.62	21.95	21.02	22.30	22.68	20.97	22.31	21.37	22.66	23.03
	6H	20.81	22.05	21.23	22.41	22.81	21.10	22.34	21.52	22.71	23.10
	8H	20.84	22.01	21.26	22.40	22.80	21.12	22.30	21.55	22.69	23.09
	12H	20.83	21.96	21.26	22.34	22.77	21.13	22.25	21.56	22.63	23.06
4H	2H	19.36	20.69	19.76	21.04	21.42	19.75	21.09	20.15	21.44	21.82
	3H	20.97	22.08	21.38	22.48	22.88	21.32	22.43	21.73	22.82	23.22
	4H	21.47	22.47	21.90	22.89	23.32	21.74	22.74	22.17	23.15	23.59
	6H	21.74	22.61	22.20	23.05	23.51	21.93	22.80	22.39	23.24	23.70
	8H	21.78	22.59	22.24	23.03	23.50	21.96	22.78	22.43	23.22	23.68
	12H	21.79	22.51	22.27	22.99	23.46	21.99	22.71	22.47	23.19	23.66
8H	4H	21.65	22.46	22.11	22.90	23.37	21.89	22.70	22.36	23.15	23.61
	6H	21.97	22.64	22.46	23.13	23.60	22.13	22.80	22.63	23.29	23.77
	8H	22.03	22.63	22.54	23.14	23.62	22.18	22.78	22.69	23.29	23.78
	12H	22.06	22.59	22.57	23.08	23.64	22.23	22.76	22.74	23.25	23.81
12H	4H	21.64	22.37	22.12	22.84	23.31	21.89	22.61	22.37	23.09	23.56
	6H	21.96	22.56	22.47	23.07	23.55	22.12	22.72	22.63	23.23	23.72
	8H	22.05	22.58	22.56	23.07	23.63	22.20	22.73	22.71	23.22	23.79