

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: P1498661

Luminaire Tested: MAE-G-2-120-3HI-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498661
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-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

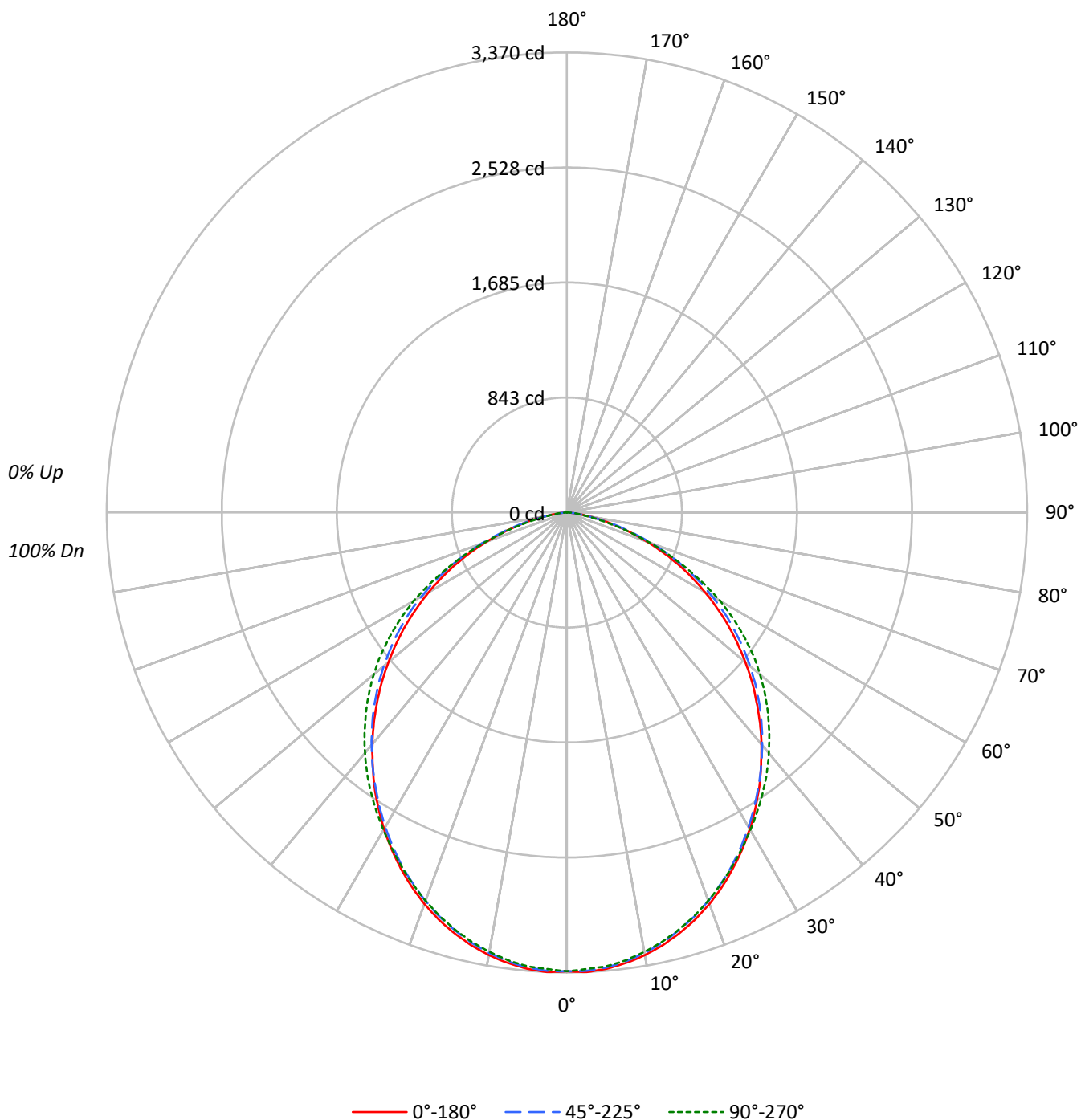
Lumens per Lamp: N/A
Luminaire Lumens: 8345.0 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.19 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 92.3
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	98	107	103	99	96	99	96	93		95	93	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9044	9044	9044
5°	9061	9036	9014
10°	8997	8954	8930
15°	8887	8827	8814
20°	8738	8672	8667
25°	8543	8483	8501
30°	8321	8263	8347
35°	8069	8037	8221
40°	7785	7817	8082
45°	7477	7590	7924
50°	7140	7327	7732
55°	6763	7018	7421
60°	6293	6615	6973
65°	5706	6051	6152
70°	4902	5201	5061
75°	3880	4027	3586
80°	2590	2473	2094
85°	1303	1408	1615

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7924 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	3.8
10°-20°	892.8	10.7
20°-30°	1316.2	15.8
30°-40°	1538.1	18.4
40°-50°	1547.0	18.5
50°-60°	1340.4	16.1
60°-70°	927.7	11.1
70°-80°	402.9	4.8
80°-90°	63.1	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°	2525.8	30.3
0°-40°	4063.9	48.7
0°-60°	6951.2	83.3
0°-90°	8345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3361	3361	3361	3361	3361	
5°	3354	3338	3345	3333	3337	318
15°	3190	3171	3169	3157	3164	899
25°	2877	2860	2857	2848	2863	1325
35°	2456	2438	2447	2473	2502	1535
45°	1965	1957	1994	2050	2082	1516
55°	1442	1439	1496	1560	1582	1287
65°	896	906	950	965	966	886
75°	373	383	387	361	345	401
85°	42	43	46	50	52	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3360.9	3360.9	3360.9	3360.9	3360.9
2.5°	3370.1	3353.6	3360.9	3351.8	3347.6
5°	3354.5	3338.5	3345.0	3332.9	3336.8
7.5°	3328.4	3312.2	3316.1	3304.1	3308.1
10°	3292.7	3274.7	3276.9	3264.4	3268.0
12.5°	3245.3	3227.8	3228.1	3214.5	3221.1
15°	3189.9	3171.4	3168.6	3157.4	3163.8
17.5°	3125.5	3106.3	3103.4	3089.5	3099.4
20°	3051.4	3032.0	3028.4	3013.2	3026.6
22.5°	2968.7	2949.5	2944.3	2932.8	2947.2
25°	2877.4	2859.7	2856.9	2847.9	2863.0
27.5°	2781.6	2762.0	2761.0	2758.8	2775.3
30°	2677.9	2658.5	2659.4	2663.7	2686.2
32.5°	2568.3	2550.6	2554.8	2569.9	2595.6
35°	2456.2	2437.8	2446.6	2472.7	2502.4
37.5°	2335.4	2322.6	2337.5	2374.2	2404.7
40°	2216.1	2202.5	2225.4	2269.1	2300.7
42.5°	2092.7	2082.6	2111.2	2163.3	2193.2
45°	1964.6	1956.9	1994.3	2049.6	2082.2
47.5°	1839.7	1830.8	1874.4	1933.6	1967.9
50°	1705.5	1701.4	1750.2	1814.3	1846.9
52.5°	1573.8	1569.6	1623.9	1690.6	1721.2
55°	1441.5	1439.3	1495.9	1559.9	1581.7
57.5°	1305.0	1309.5	1365.7	1420.6	1442.4
60°	1169.2	1174.6	1229.1	1277.4	1295.6
62.5°	1033.4	1041.9	1091.6	1127.7	1131.5
65°	896.1	906.1	950.3	964.7	966.1
67.5°	757.7	770.5	807.4	809.3	806.2
70°	623.0	632.9	661.1	655.0	643.3
72.5°	492.0	504.2	517.6	503.5	487.0
75°	373.2	382.8	387.3	361.1	344.9
77.5°	262.5	268.7	264.3	236.8	225.2
80°	167.1	172.6	159.6	142.8	135.1
82.5°	92.4	96.4	85.3	87.5	88.9
85°	42.2	43.3	45.6	50.5	52.3
87.5°	14.4	16.0	18.3	19.2	17.6
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	18.58	20.16	18.95	20.48	20.79	19.17	20.76	19.54	21.07	21.38
	3H	20.02	21.44	20.39	21.77	22.13	20.51	21.94	20.89	22.26	22.63
	4H	20.43	21.76	20.83	22.11	22.49	20.83	22.17	21.23	22.51	22.89
	6H	20.62	21.85	21.03	22.22	22.61	20.93	22.17	21.35	22.53	22.93
	8H	20.64	21.82	21.07	22.21	22.61	20.94	22.12	21.37	22.51	22.91
	12H	20.64	21.76	21.07	22.15	22.57	20.94	22.06	21.37	22.45	22.87
4H	2H	19.19	20.53	19.59	20.88	21.25	19.67	21.01	20.07	21.35	21.73
	3H	20.80	21.91	21.21	22.31	22.71	21.19	22.30	21.60	22.70	23.10
	4H	21.29	22.29	21.73	22.71	23.14	21.58	22.58	22.01	23.00	23.43
	6H	21.56	22.42	22.01	22.87	23.32	21.74	22.61	22.20	23.05	23.51
	8H	21.59	22.40	22.05	22.84	23.31	21.76	22.57	22.22	23.01	23.48
	12H	21.60	22.32	22.08	22.80	23.27	21.77	22.49	22.25	22.97	23.44
8H	4H	21.46	22.27	21.93	22.72	23.18	21.73	22.54	22.19	22.98	23.45
	6H	21.77	22.44	22.27	22.93	23.41	21.92	22.59	22.42	23.08	23.56
	8H	21.83	22.43	22.34	22.94	23.42	21.96	22.56	22.47	23.06	23.55
	12H	21.86	22.38	22.37	22.88	23.44	21.99	22.52	22.50	23.01	23.57
12H	4H	21.45	22.18	21.94	22.66	23.13	21.72	22.45	22.20	22.92	23.39
	6H	21.76	22.36	22.27	22.87	23.35	21.91	22.51	22.42	23.02	23.51
	8H	21.85	22.37	22.35	22.86	23.43	21.98	22.50	22.48	22.99	23.56