

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: P1498820

Luminaire Tested: MAE-G-2-120-3STD-HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498820
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-2-120-3STD-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

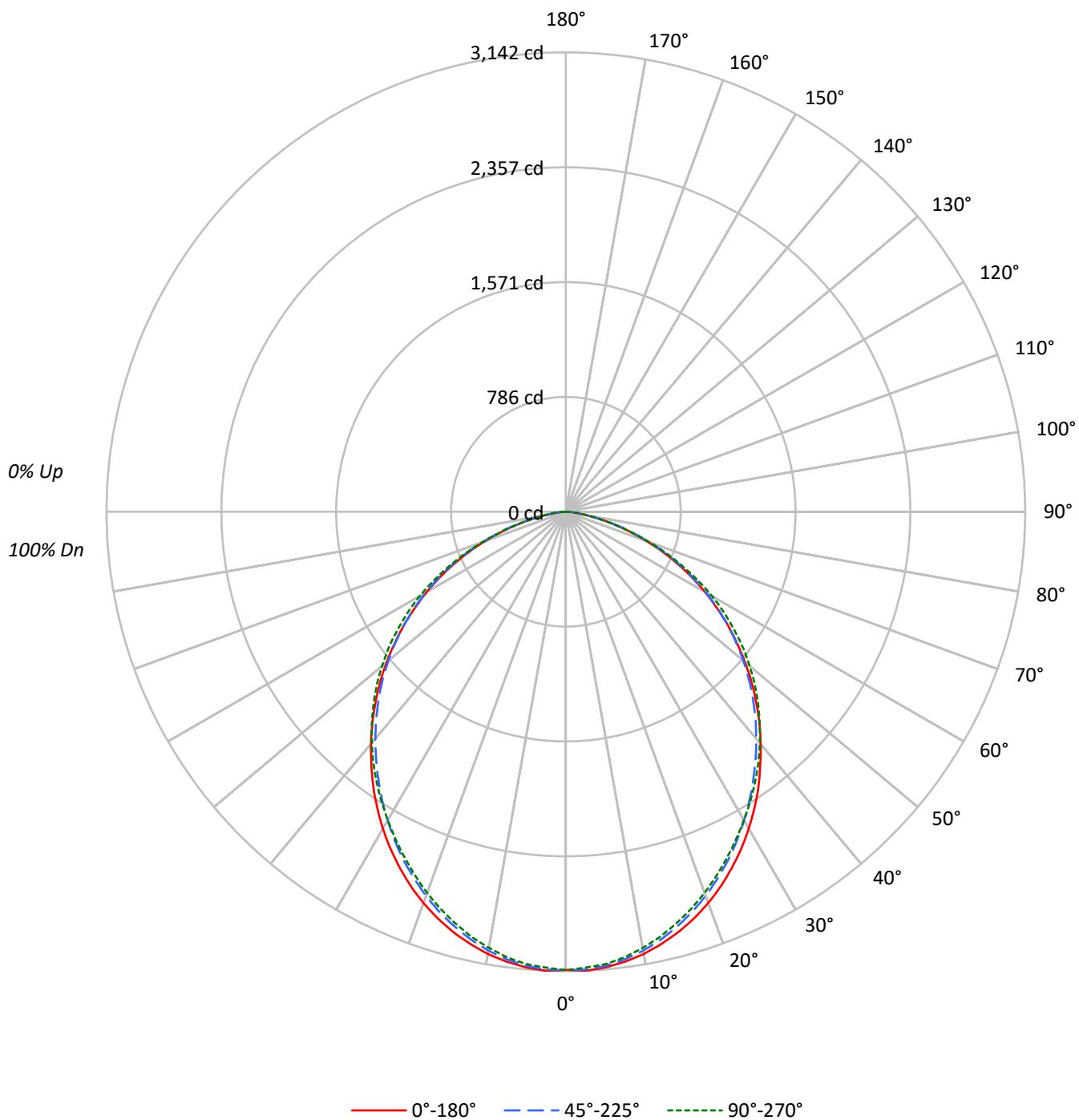
Lumens per Lamp: N/A
Luminaire Lumens: 7678.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 97.5
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	85
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	61
4	84	73	64	58	82	71	63	57	69	62	57	66	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	42	42	42	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	41	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	34	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8435	8435	8435
5°	8450	8421	8390
10°	8391	8328	8277
15°	8290	8182	8123
20°	8156	8006	7943
25°	7979	7803	7749
30°	7776	7575	7569
35°	7546	7344	7414
40°	7286	7119	7253
45°	7003	6890	7077
50°	6694	6634	6872
55°	6344	6338	6587
60°	5912	5964	6221
65°	5375	5467	5604
70°	4636	4776	4785
75°	3690	3840	3669
80°	2495	2593	2503
85°	1291	1689	2100

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	3.8
10°-20°	827.5	10.8
20°-30°	1212.9	15.8
30°-40°	1409.4	18.4
40°-50°	1409.9	18.4
50°-60°	1216.8	15.8
60°-70°	849.0	11.1
70°-80°	387.5	5.0
80°-90°	70.2	0.9
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°	2335.3	30.4
0°-40°	3744.7	48.8
0°-60°	6371.3	83.0
0°-90°	7678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3134	3134	3134	3134	3134	
5°	3128	3115	3117	3101	3106	297
15°	2976	2956	2937	2912	2916	839
25°	2687	2659	2628	2602	2610	1237
35°	2297	2262	2236	2238	2257	1435
45°	1840	1813	1810	1839	1860	1420
55°	1352	1331	1351	1390	1404	1207
65°	844	836	859	876	880	834
75°	355	355	369	361	353	381
85°	42	46	55	64	68	62
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3134.4	3134.4	3134.4	3134.4	3134.4
2.5°	3141.9	3130.2	3134.4	3121.8	3120.4
5°	3128.0	3115.4	3117.4	3101.2	3105.8
7.5°	3103.8	3090.0	3087.7	3069.6	3073.4
10°	3070.9	3054.4	3047.6	3026.5	3029.2
12.5°	3027.3	3009.6	2997.3	2972.9	2977.3
15°	2975.8	2955.9	2937.0	2911.9	2915.6
17.5°	2916.3	2893.8	2870.8	2841.8	2848.5
20°	2848.0	2823.2	2795.8	2765.3	2773.7
22.5°	2771.5	2744.8	2713.8	2685.6	2693.5
25°	2687.3	2659.4	2628.0	2601.5	2609.8
27.5°	2598.5	2567.5	2535.0	2514.0	2523.3
30°	2502.6	2470.0	2437.7	2422.0	2435.8
32.5°	2401.3	2368.5	2338.3	2331.6	2347.6
35°	2297.0	2262.4	2235.5	2238.1	2257.0
37.5°	2185.1	2154.7	2132.1	2144.0	2163.1
40°	2074.0	2042.4	2026.5	2044.6	2064.8
42.5°	1959.0	1930.2	1919.7	1944.8	1963.6
45°	1840.2	1812.6	1810.4	1839.1	1859.6
47.5°	1723.0	1695.1	1699.5	1731.6	1754.0
50°	1599.0	1574.9	1584.6	1621.6	1641.6
52.5°	1475.0	1452.0	1468.6	1508.0	1527.8
55°	1352.3	1330.7	1351.0	1389.8	1404.0
57.5°	1225.1	1210.1	1232.1	1266.7	1282.0
60°	1098.5	1084.9	1108.2	1141.4	1155.9
62.5°	971.6	961.2	984.5	1012.8	1018.7
65°	844.2	835.7	858.6	876.0	880.1
67.5°	715.1	710.8	733.3	744.7	745.6
70°	589.2	583.9	607.0	613.1	608.2
72.5°	466.8	465.9	483.1	484.0	475.2
75°	354.9	354.9	369.3	360.9	352.9
77.5°	250.9	251.7	261.0	251.2	246.9
80°	161.0	165.6	167.3	164.5	161.5
82.5°	90.3	96.0	97.4	106.7	110.8
85°	41.8	45.9	54.7	64.1	68.0
87.5°	14.3	17.5	22.6	24.3	22.8
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	18.34	19.93	18.71	20.24	20.55	18.66	20.24	19.03	20.56	20.87
	3H	19.79	21.22	20.17	21.55	21.91	20.11	21.53	20.48	21.86	22.22
	4H	20.22	21.55	20.61	21.90	22.28	20.50	21.84	20.90	22.18	22.56
	6H	20.42	21.66	20.83	22.02	22.41	20.68	21.91	21.09	22.28	22.67
	8H	20.45	21.63	20.87	22.01	22.41	20.71	21.89	21.14	22.28	22.68
	12H	20.45	21.57	20.87	21.96	22.38	20.73	21.86	21.16	22.24	22.67
4H	2H	18.92	20.25	19.32	20.60	20.98	19.17	20.51	19.57	20.86	21.24
	3H	20.54	21.66	20.95	22.06	22.46	20.81	21.92	21.22	22.32	22.72
	4H	21.05	22.05	21.48	22.47	22.91	21.29	22.29	21.72	22.70	23.14
	6H	21.33	22.20	21.79	22.64	23.10	21.54	22.41	22.00	22.85	23.31
	8H	21.37	22.19	21.84	22.63	23.10	21.60	22.41	22.06	22.85	23.32
	12H	21.39	22.11	21.87	22.59	23.06	21.64	22.37	22.12	22.84	23.31
8H	4H	21.24	22.05	21.70	22.50	22.96	21.45	22.27	21.92	22.71	23.18
	6H	21.57	22.25	22.07	22.74	23.21	21.76	22.43	22.26	22.92	23.40
	8H	21.64	22.24	22.15	22.75	23.24	21.85	22.45	22.36	22.96	23.45
	12H	21.68	22.21	22.19	22.70	23.26	21.93	22.46	22.43	22.95	23.51
12H	4H	21.24	21.97	21.72	22.44	22.91	21.45	22.18	21.93	22.66	23.13
	6H	21.57	22.17	22.08	22.68	23.17	21.76	22.36	22.27	22.87	23.36
	8H	21.67	22.20	22.18	22.69	23.26	21.88	22.41	22.39	22.90	23.46