

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: P1499177

Luminaire Tested: MAE-G-4-120-2HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-2HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

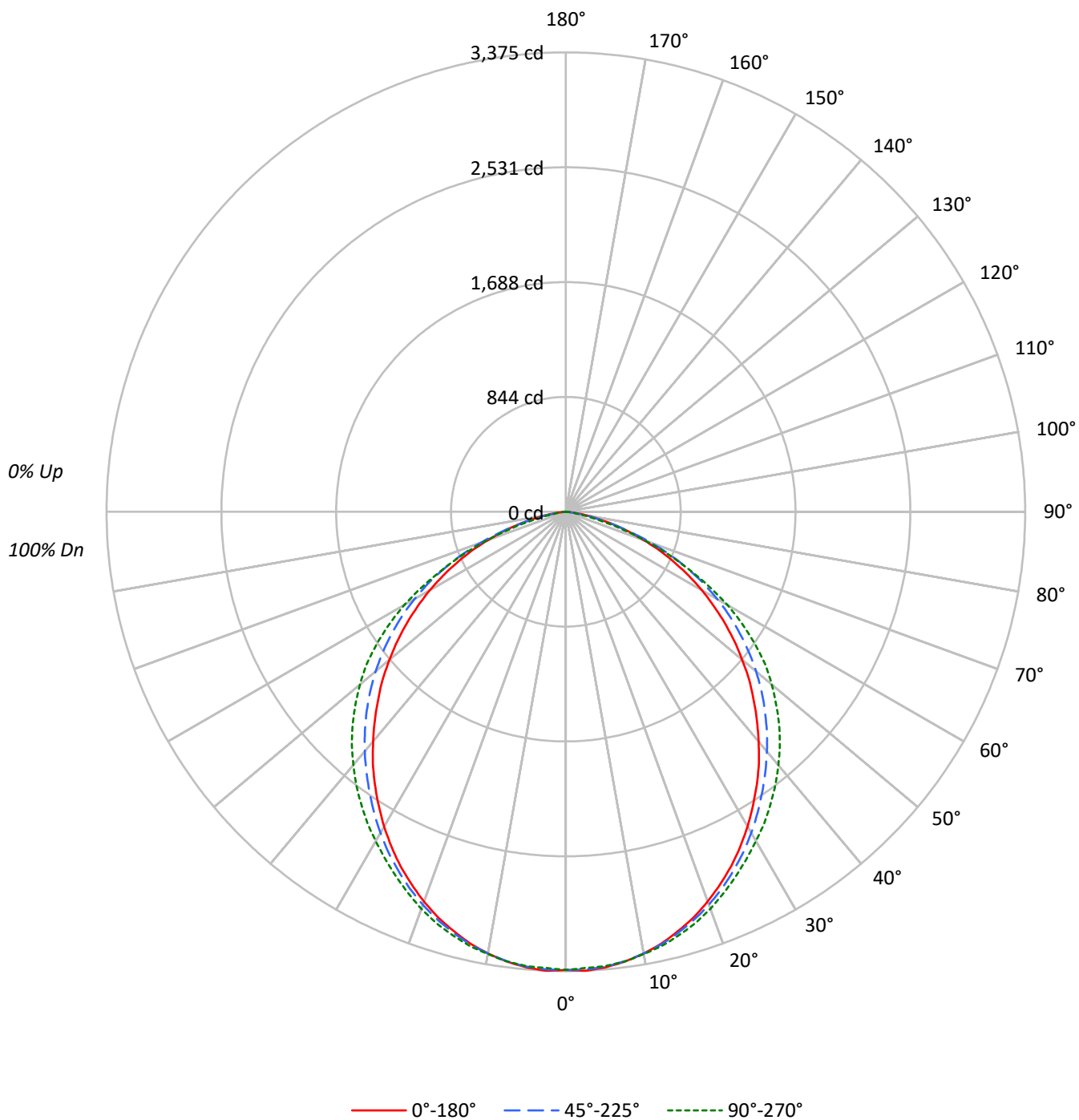
Lumens per Lamp: N/A
Luminaire Lumens: 8497.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 88.6
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	102	98	107	103	100	97	99	96	93		95	93	91		92
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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	45	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°	4529	4529	4529
5°	4537	4530	4525
10°	4502	4502	4508
15°	4442	4458	4485
20°	4363	4399	4445
25°	4266	4322	4387
30°	4148	4234	4340
35°	4018	4130	4307
40°	3869	4037	4266
45°	3711	3937	4219
50°	3539	3819	4134
55°	3344	3665	3979
60°	3107	3460	3694
65°	2802	3144	3163
70°	2392	2617	2446
75°	1878	1895	1527
80°	1221	975	585
85°	565	371	301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4219 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	317.9	3.7
10°-20°	901.7	10.6
20°-30°	1339.5	15.8
30°-40°	1577.8	18.6
40°-50°	1598.4	18.8
50°-60°	1391.3	16.4
60°-70°	948.0	11.2
70°-80°	379.0	4.5
80°-90°	43.4	0.5
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°	2559.1	30.1
0°-40°	4136.9	48.7
0°-60°	7126.6	83.9
0°-90°	8497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3366	3366	3366	3366	3366	
5°	3359	3340	3354	3349	3350	319
15°	3189	3175	3200	3212	3220	899
25°	2873	2875	2911	2935	2955	1322
35°	2446	2458	2515	2581	2622	1529
45°	1950	1974	2069	2166	2217	1505
55°	1425	1456	1562	1661	1696	1273
65°	880	921	988	989	993	872
75°	361	383	364	313	294	389
85°	37	33	24	22	20	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3366.1	3366.1	3366.1	3366.1	3366.1
2.5°	3375.4	3353.7	3366.1	3363.8	3354.7
5°	3359.3	3339.8	3353.7	3349.2	3350.2
7.5°	3333.0	3314.8	3329.7	3328.4	3332.0
10°	3295.3	3277.2	3295.3	3296.4	3299.9
12.5°	3248.4	3232.4	3254.2	3258.7	3266.8
15°	3189.0	3175.3	3200.4	3212.0	3219.8
17.5°	3125.1	3116.0	3141.0	3155.9	3168.5
20°	3047.3	3042.7	3072.5	3087.2	3104.4
22.5°	2962.6	2960.4	2996.0	3014.2	3031.3
25°	2873.4	2874.7	2911.3	2935.3	2954.8
27.5°	2775.2	2777.4	2822.2	2850.7	2874.7
30°	2670.1	2675.9	2724.9	2763.8	2793.6
32.5°	2559.2	2569.5	2622.1	2675.9	2713.5
35°	2446.0	2457.6	2514.7	2580.9	2622.1
37.5°	2329.5	2342.2	2408.3	2486.2	2529.6
40°	2202.7	2221.9	2298.7	2384.3	2428.8
42.5°	2077.9	2099.6	2185.5	2279.3	2327.3
45°	1950.1	1974.1	2068.8	2166.1	2217.4
47.5°	1826.5	1847.0	1948.8	2050.6	2096.3
50°	1690.6	1717.9	1824.3	1926.1	1975.1
52.5°	1560.3	1586.5	1695.2	1799.0	1849.5
55°	1425.4	1456.2	1562.5	1660.8	1696.2
57.5°	1289.4	1324.8	1427.6	1508.7	1539.5
60°	1154.5	1189.9	1285.9	1349.8	1372.8
62.5°	1018.4	1055.0	1139.6	1178.5	1183.1
65°	880.2	921.4	987.5	988.8	993.4
67.5°	748.8	782.9	830.9	817.3	810.4
70°	608.1	645.7	665.2	637.9	621.7
72.5°	483.5	510.8	507.5	467.4	448.2
75°	361.3	383.0	364.5	313.3	293.8
77.5°	250.4	268.5	231.9	183.9	164.7
80°	157.6	165.7	125.8	89.2	75.5
82.5°	84.6	83.4	53.8	44.5	41.2
85°	36.6	33.1	24.0	21.7	19.5
87.5°	12.6	11.4	9.1	8.1	6.8
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	16.16	17.75	16.53	18.06	18.37	17.12	18.71	17.49	19.02	19.33
	3H	17.58	19.01	17.96	19.33	19.69	18.31	19.73	18.69	20.06	20.42
	4H	17.98	19.31	18.38	19.66	20.04	18.53	19.86	18.93	20.21	20.59
	6H	18.15	19.38	18.56	19.75	20.14	18.55	19.78	18.96	20.14	20.54
	8H	18.17	19.34	18.59	19.73	20.13	18.52	19.70	18.95	20.09	20.49
	12H	18.16	19.28	18.59	19.66	20.09	18.50	19.62	18.93	20.00	20.43
4H	2H	16.83	18.16	17.22	18.51	18.88	17.60	18.93	18.00	19.28	19.66
	3H	18.40	19.51	18.81	19.91	20.31	18.95	20.05	19.36	20.45	20.85
	4H	18.88	19.87	19.31	20.29	20.72	19.22	20.21	19.65	20.62	21.06
	6H	19.12	19.98	19.57	20.42	20.88	19.27	20.13	19.72	20.57	21.03
	8H	19.14	19.94	19.60	20.39	20.85	19.24	20.05	19.71	20.49	20.96
	12H	19.14	19.86	19.62	20.33	20.81	19.22	19.94	19.70	20.42	20.89
8H	4H	19.01	19.82	19.48	20.26	20.73	19.33	20.13	19.79	20.58	21.04
	6H	19.29	19.95	19.79	20.44	20.92	19.39	20.05	19.89	20.54	21.02
	8H	19.33	19.92	19.84	20.43	20.92	19.37	19.96	19.88	20.47	20.95
	12H	19.34	19.86	19.85	20.35	20.92	19.35	19.87	19.86	20.36	20.93
12H	4H	19.00	19.71	19.48	20.19	20.66	19.32	20.04	19.80	20.52	20.99
	6H	19.26	19.85	19.77	20.36	20.85	19.37	19.96	19.88	20.47	20.96
	8H	19.32	19.84	19.83	20.34	20.90	19.37	19.89	19.88	20.38	20.94

END OF REPORT