

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: P1499657

Luminaire Tested: MAE-G-4-120-3STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499657
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-4-120-3STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

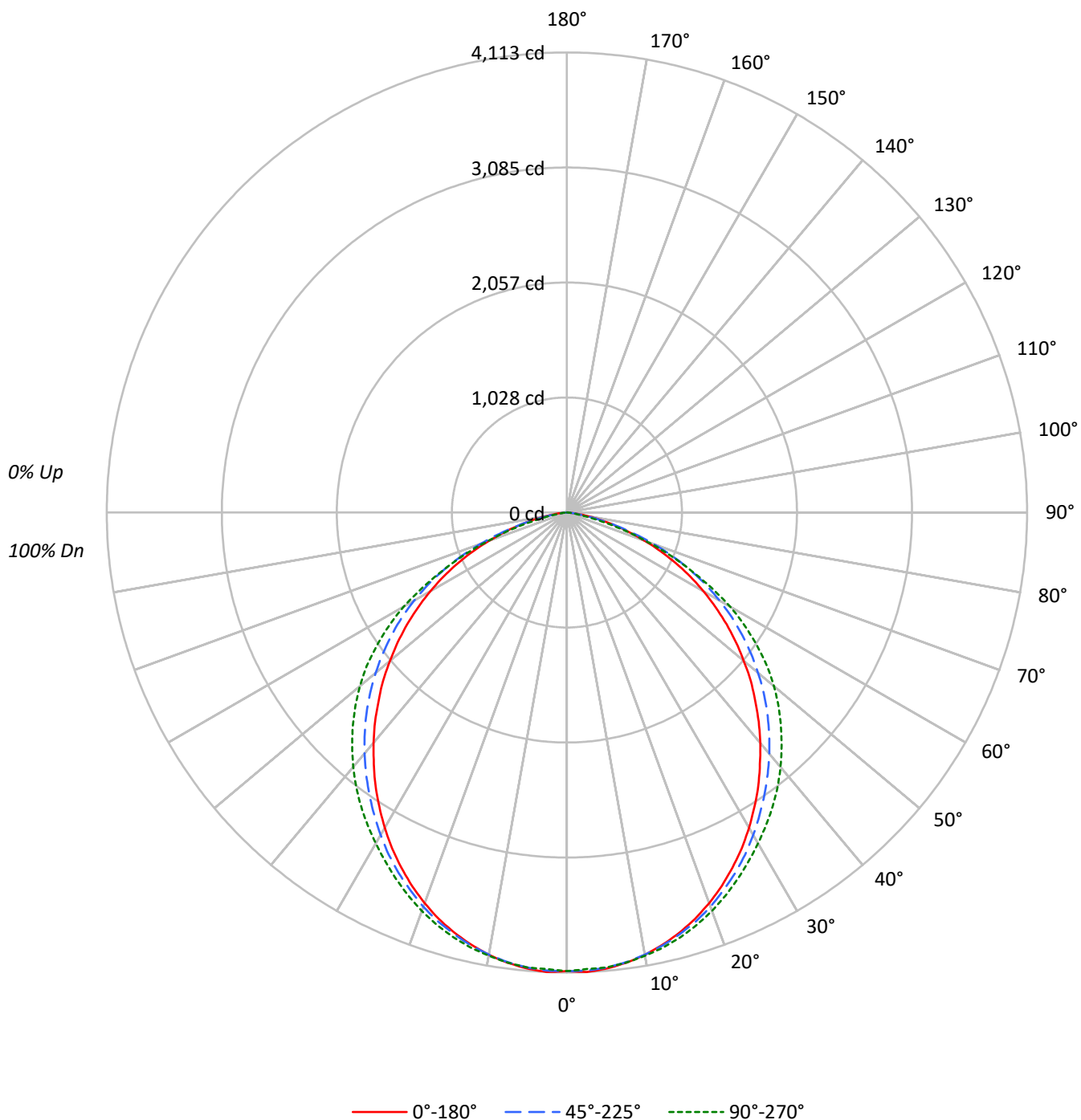
Lumens per Lamp: N/A
Luminaire Lumens: 10390.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 102.4
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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62		
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	65	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	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	36	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	28	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5516	5516	5516
5°	5528	5516	5514
10°	5487	5484	5497
15°	5417	5434	5474
20°	5323	5371	5427
25°	5199	5282	5365
30°	5058	5173	5309
35°	4899	5055	5268
40°	4721	4941	5216
45°	4529	4819	5149
50°	4319	4670	5057
55°	4087	4489	4863
60°	3793	4242	4538
65°	3425	3869	3886
70°	2923	3248	3020
75°	2296	2370	1858
80°	1499	1219	719
85°	718	482	381

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	387.2	3.7
10°-20°	1099.3	10.6
20°-30°	1635.0	15.7
30°-40°	1926.7	18.5
40°-50°	1953.5	18.8
50°-60°	1702.2	16.4
60°-70°	1164.2	11.2
70°-80°	467.6	4.5
80°-90°	54.2	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°	3121.6	30.0
0°-40°	5048.3	48.6
0°-60°	8704.0	83.8
0°-90°	10390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4099	4099	4099	4099	4099	
5°	4093	4068	4084	4080	4082	388
15°	3889	3872	3901	3917	3930	1096
25°	3502	3503	3558	3584	3614	1612
35°	2983	2996	3078	3153	3207	1863
45°	2380	2412	2533	2646	2706	1837
55°	1742	1779	1914	2034	2073	1555
65°	1076	1124	1215	1224	1221	1064
75°	442	471	456	392	357	474
85°	46	42	31	27	25	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4099.4	4099.4	4099.4	4099.4	4099.4
2.5°	4112.6	4085.2	4099.4	4096.5	4086.0
5°	4092.7	4068.0	4084.1	4079.5	4082.2
7.5°	4060.4	4037.8	4054.8	4053.9	4058.6
10°	4016.0	3993.2	4014.1	4017.9	4023.6
12.5°	3957.2	3938.3	3963.9	3971.4	3982.7
15°	3888.9	3871.9	3901.2	3917.4	3929.7
17.5°	3809.3	3795.0	3832.9	3848.2	3865.2
20°	3717.3	3707.0	3751.4	3765.7	3790.4
22.5°	3615.1	3609.4	3655.7	3677.5	3706.0
25°	3502.1	3503.2	3558.1	3583.8	3614.0
27.5°	3383.8	3385.7	3448.3	3484.1	3516.4
30°	3255.8	3261.4	3329.7	3374.3	3416.9
32.5°	3120.2	3131.5	3205.5	3266.2	3313.6
35°	2982.8	2996.0	3077.7	3153.3	3207.4
37.5°	2834.1	2855.8	2947.8	3037.9	3093.6
40°	2688.0	2709.8	2813.1	2912.6	2969.6
42.5°	2537.4	2564.9	2674.8	2785.7	2840.5
45°	2380.1	2412.1	2532.6	2646.3	2706.1
47.5°	2229.2	2257.7	2384.7	2503.3	2564.9
50°	2063.3	2099.4	2231.1	2355.4	2416.1
52.5°	1905.2	1938.3	2073.8	2201.0	2255.8
55°	1742.2	1779.0	1913.7	2034.0	2073.0
57.5°	1575.2	1619.8	1749.7	1850.3	1887.1
60°	1409.5	1453.9	1576.2	1658.8	1686.2
62.5°	1244.4	1292.0	1399.0	1453.9	1453.9
65°	1075.8	1124.2	1215.1	1224.5	1220.7
67.5°	907.1	955.5	1024.6	1007.5	996.2
70°	743.1	784.8	825.6	794.2	767.8
72.5°	583.9	623.7	630.4	584.9	551.6
75°	441.6	471.2	455.9	391.5	357.4
77.5°	308.0	325.1	292.9	227.5	200.1
80°	193.4	200.9	157.3	110.8	92.8
82.5°	104.3	105.2	68.3	55.9	52.2
85°	46.5	41.7	31.2	27.4	24.7
87.5°	16.1	14.2	11.3	10.5	8.6
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	16.86	18.44	17.22	18.76	19.07	17.84	19.43	18.21	19.74	20.05
	3H	18.27	19.69	18.65	20.02	20.38	19.05	20.47	19.42	20.80	21.16
	4H	18.66	20.00	19.06	20.34	20.72	19.26	20.60	19.66	20.95	21.32
	6H	18.84	20.07	19.25	20.44	20.83	19.28	20.51	19.69	20.88	21.27
	8H	18.85	20.03	19.28	20.42	20.82	19.26	20.43	19.68	20.82	21.22
	12H	18.84	19.97	19.27	20.35	20.78	19.23	20.36	19.66	20.74	21.17
4H	2H	17.53	18.86	17.93	19.21	19.59	18.32	19.65	18.72	20.00	20.38
	3H	19.10	20.20	19.51	20.60	21.00	19.69	20.80	20.10	21.19	21.59
	4H	19.58	20.57	20.01	20.98	21.42	19.96	20.96	20.39	21.37	21.81
	6H	19.81	20.68	20.27	21.12	21.58	20.01	20.88	20.47	21.32	21.78
	8H	19.84	20.64	20.30	21.09	21.55	19.99	20.79	20.45	21.24	21.70
	12H	19.84	20.56	20.32	21.03	21.50	19.97	20.69	20.45	21.16	21.64
8H	4H	19.72	20.52	20.18	20.97	21.43	20.08	20.89	20.54	21.33	21.80
	6H	20.00	20.66	20.49	21.15	21.62	20.14	20.80	20.64	21.29	21.77
	8H	20.04	20.63	20.55	21.14	21.62	20.12	20.71	20.63	21.22	21.71
	12H	20.05	20.57	20.56	21.06	21.63	20.10	20.63	20.61	21.12	21.68
12H	4H	19.70	20.42	20.18	20.90	21.37	20.07	20.79	20.55	21.27	21.74
	6H	19.97	20.56	20.48	21.07	21.55	20.12	20.71	20.63	21.22	21.71
	8H	20.03	20.55	20.54	21.04	21.61	20.12	20.64	20.63	21.13	21.70