

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: P1498861

Luminaire Tested: MAE-G-2-120-3STD-LO-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498861
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-LO-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

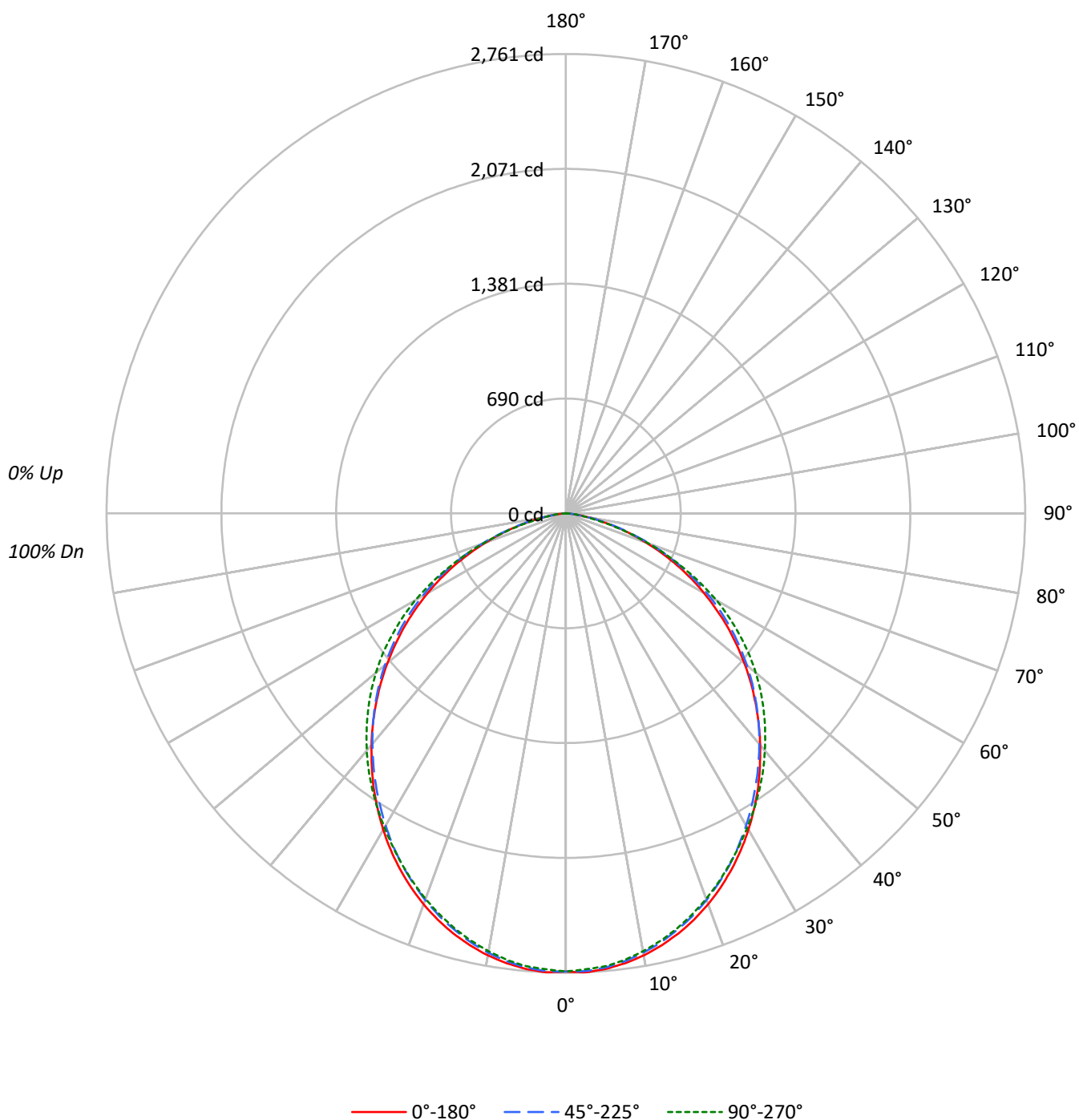
Lumens per Lamp: N/A
Luminaire Lumens: 6807.0 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.3
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 76.8
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	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	78	65	56	50	75	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	40		
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	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7410	7410	7410
5°	7424	7401	7380
10°	7372	7330	7301
15°	7282	7218	7193
20°	7161	7082	7061
25°	7003	6919	6913
30°	6822	6733	6776
35°	6617	6541	6662
40°	6386	6355	6539
45°	6134	6164	6401
50°	5861	5945	6237
55°	5552	5690	5983
60°	5168	5360	5631
65°	4691	4907	5002
70°	4035	4240	4166
75°	3200	3324	3032
80°	2143	2109	1875
85°	1093	1266	1497

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6401 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	3.8
10°-20°	730.0	10.7
20°-30°	1074.2	15.8
30°-40°	1252.9	18.4
40°-50°	1258.0	18.5
50°-60°	1088.6	16.0
60°-70°	755.4	11.1
70°-80°	333.5	4.9
80°-90°	55.0	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°	2063.6	30.3
0°-40°	3316.5	48.7
0°-60°	5663.1	83.2
0°-90°	6807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2748	2736	2740	2729	2732	261
15°	2614	2598	2591	2578	2582	737
25°	2359	2341	2330	2318	2328	1086
35°	2014	1994	1991	2006	2028	1258
45°	1612	1600	1620	1658	1682	1244
55°	1183	1176	1213	1259	1275	1056
65°	737	740	771	784	786	728
75°	308	313	320	303	292	331
85°	35	37	41	46	48	53
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.8	2753.8	2753.8	2753.8	2753.8
2.5°	2760.9	2748.4	2753.8	2745.0	2742.4
5°	2748.4	2735.9	2740.0	2728.8	2732.1
7.5°	2727.0	2714.1	2715.6	2703.7	2707.1
10°	2697.8	2683.1	2682.4	2669.4	2672.1
12.5°	2659.2	2644.4	2641.1	2626.5	2631.3
15°	2613.9	2597.9	2590.9	2577.5	2582.1
17.5°	2561.2	2544.2	2535.9	2519.9	2527.2
20°	2500.7	2482.9	2472.9	2455.8	2465.6
22.5°	2433.1	2414.9	2403.0	2388.6	2398.8
25°	2358.7	2340.8	2330.2	2317.6	2328.3
27.5°	2280.4	2260.6	2250.6	2243.3	2255.1
30°	2195.6	2175.6	2166.7	2164.4	2180.8
32.5°	2106.1	2086.8	2080.3	2086.7	2105.5
35°	2014.3	1994.2	1991.2	2006.3	2028.1
37.5°	1915.5	1899.7	1901.4	1925.0	1947.2
40°	1817.8	1801.2	1809.2	1838.4	1861.6
42.5°	1716.7	1702.8	1715.6	1751.4	1773.2
45°	1611.9	1599.8	1619.7	1658.3	1682.1
47.5°	1509.4	1496.4	1521.7	1563.4	1588.8
50°	1399.9	1390.6	1420.1	1466.1	1489.8
52.5°	1291.7	1282.6	1317.2	1365.3	1387.8
55°	1183.4	1175.9	1212.9	1259.2	1275.3
57.5°	1071.5	1069.7	1106.9	1147.1	1163.5
60°	960.3	959.3	996.0	1032.1	1046.3
62.5°	849.0	850.6	884.6	912.6	916.4
65°	736.7	739.7	770.6	783.6	785.5
67.5°	623.3	629.0	655.8	660.2	658.7
70°	512.8	516.7	538.9	537.3	529.5
72.5°	405.5	411.9	424.2	416.7	405.1
75°	307.8	313.0	319.7	302.8	291.6
77.5°	216.8	220.5	220.8	202.8	195.2
80°	138.3	142.7	136.1	126.1	121.0
82.5°	76.9	80.7	75.1	79.0	81.0
85°	35.4	37.1	41.0	46.3	48.5
87.5°	12.0	13.9	16.7	17.7	16.3
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	17.89	19.47	18.25	19.79	20.10	18.39	19.98	18.76	20.29	20.60
	3H	19.33	20.75	19.71	21.08	21.44	19.77	21.19	20.14	21.52	21.88
	4H	19.74	21.08	20.14	21.43	21.81	20.11	21.44	20.51	21.79	22.17
	6H	19.94	21.18	20.35	21.54	21.93	20.23	21.47	20.65	21.84	22.23
	8H	19.96	21.14	20.39	21.53	21.93	20.25	21.43	20.68	21.82	22.22
	12H	19.96	21.09	20.39	21.47	21.90	20.25	21.38	20.68	21.76	22.19
4H	2H	18.49	19.83	18.89	20.17	20.55	18.90	20.23	19.29	20.58	20.96
	3H	20.10	21.21	20.51	21.61	22.01	20.45	21.56	20.86	21.96	22.36
	4H	20.60	21.60	21.03	22.01	22.45	20.87	21.87	21.30	22.29	22.72
	6H	20.87	21.74	21.33	22.18	22.64	21.06	21.93	21.52	22.37	22.83
	8H	20.91	21.72	21.37	22.16	22.63	21.09	21.90	21.55	22.34	22.81
	12H	20.92	21.64	21.40	22.12	22.59	21.11	21.83	21.59	22.31	22.78
8H	4H	20.78	21.59	21.24	22.03	22.50	21.03	21.84	21.49	22.28	22.75
	6H	21.10	21.76	21.59	22.25	22.73	21.26	21.92	21.75	22.41	22.89
	8H	21.16	21.75	21.67	22.26	22.75	21.31	21.90	21.82	22.41	22.90
	12H	21.19	21.71	21.69	22.20	22.77	21.35	21.88	21.86	22.37	22.93
12H	4H	20.77	21.50	21.25	21.97	22.44	21.02	21.74	21.50	22.22	22.69
	6H	21.08	21.68	21.60	22.19	22.68	21.25	21.84	21.76	22.35	22.84
	8H	21.18	21.70	21.68	22.20	22.76	21.33	21.85	21.84	22.35	22.91