

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: P1499645

Luminaire Tested: MAE-G-4-120-3LO-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499645
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-4-120-3LO-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

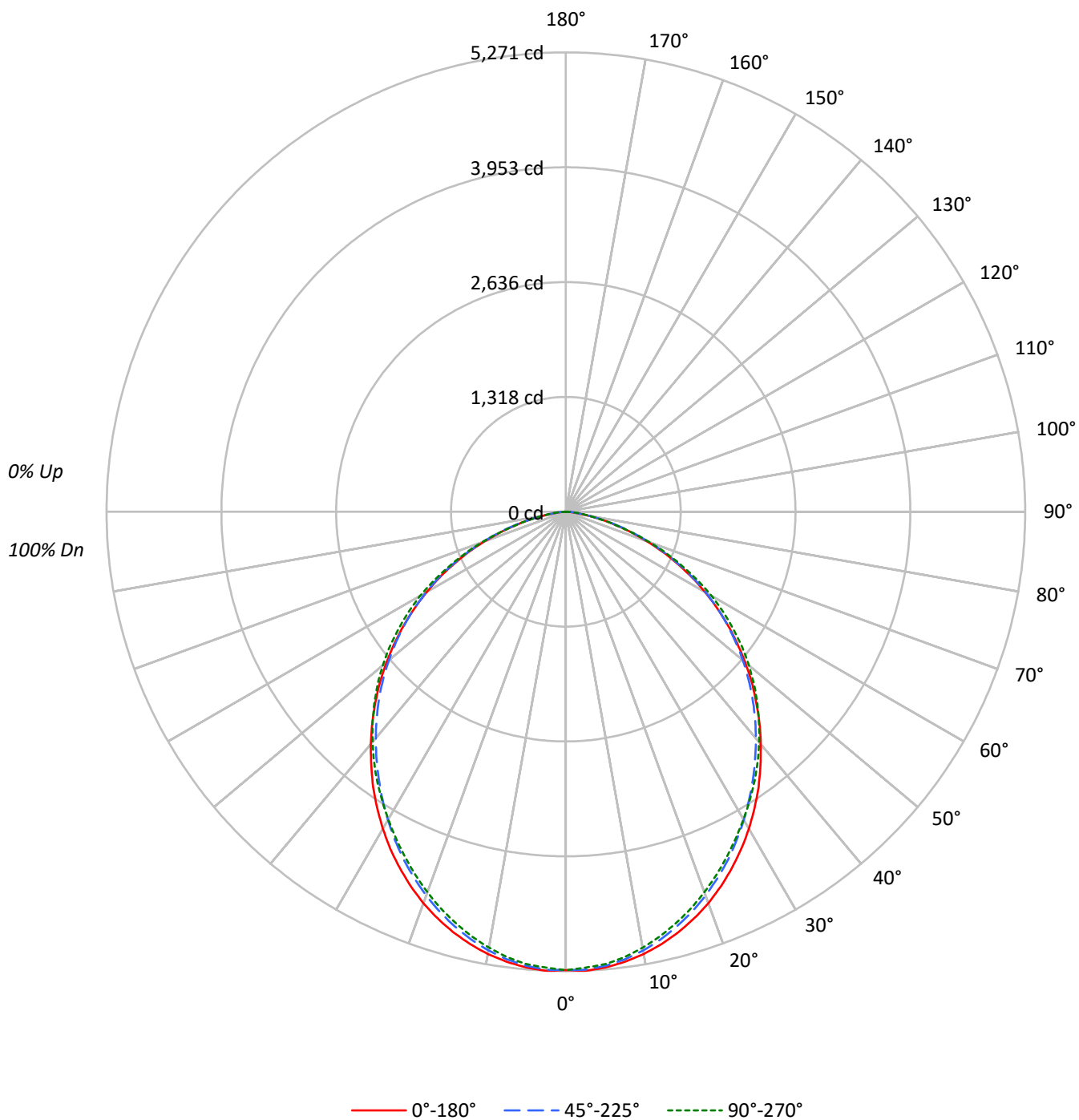
Lumens per Lamp: N/A
Luminaire Lumens: 12865.0 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 140.5
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
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	92	90		91
2	100	92	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	56		66	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	41	35	61	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	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7076	7076	7076
5°	7088	7064	7037
10°	7040	6984	6940
15°	6955	6860	6806
20°	6843	6710	6652
25°	6694	6537	6486
30°	6525	6344	6332
35°	6332	6148	6199
40°	6114	5958	6061
45°	5877	5764	5911
50°	5619	5548	5737
55°	5326	5300	5498
60°	4964	4987	5195
65°	4514	4572	4690
70°	3895	4000	4020
75°	3101	3229	3105
80°	2099	2200	2146
85°	1091	1448	1814

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	494.8	3.8
10°-20°	1387.6	10.8
20°-30°	2032.5	15.8
30°-40°	2360.5	18.3
40°-50°	2360.0	18.3
50°-60°	2036.0	15.8
60°-70°	1421.8	11.1
70°-80°	652.2	5.1
80°-90°	119.7	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°	3914.9	30.4
0°-40°	6275.4	48.8
0°-60°	10671.3	82.9
0°-90°	12865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5259	5259	5259	5259	5259	
5°	5248	5228	5230	5202	5210	498
15°	4993	4959	4925	4880	4886	1407
25°	4509	4461	4403	4356	4369	2076
35°	3855	3794	3743	3744	3774	2409
45°	3089	3039	3029	3074	3106	2383
55°	2270	2231	2260	2321	2344	2027
65°	1418	1400	1436	1466	1473	1401
75°	596	595	621	610	597	641
85°	71	78	94	110	118	104
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5259.0	5259.0	5259.0	5259.0	5259.0
2.5°	5271.4	5252.4	5259.0	5237.1	5235.4
5°	5248.1	5227.6	5230.2	5202.2	5210.0
7.5°	5207.6	5184.7	5179.7	5148.3	5154.8
10°	5152.5	5124.8	5112.0	5074.9	5079.4
12.5°	5079.3	5049.5	5026.9	4983.8	4991.0
15°	4993.1	4959.2	4924.8	4880.1	4886.1
17.5°	4893.3	4854.8	4812.7	4761.6	4772.3
20°	4778.9	4736.2	4686.1	4632.3	4645.6
22.5°	4650.5	4604.3	4548.1	4497.6	4510.2
25°	4509.3	4460.8	4403.3	4355.8	4368.8
27.5°	4360.6	4306.4	4246.7	4208.2	4222.9
30°	4199.8	4142.8	4083.1	4053.5	4075.4
32.5°	4030.0	3972.2	3915.9	3901.1	3926.8
35°	3855.2	3794.0	3743.1	3743.8	3774.1
37.5°	3667.4	3613.4	3569.3	3585.6	3616.1
40°	3481.1	3424.9	3392.0	3418.5	3451.0
42.5°	3288.1	3236.5	3212.6	3251.0	3280.9
45°	3088.8	3039.2	3029.3	3073.7	3106.4
47.5°	2892.0	2842.2	2843.2	2893.4	2929.4
50°	2684.2	2640.4	2650.6	2709.0	2740.8
52.5°	2476.0	2434.3	2456.2	2518.7	2550.5
55°	2270.3	2230.8	2259.5	2321.0	2343.9
57.5°	2056.9	2028.3	2060.3	2115.7	2140.5
60°	1844.5	1818.5	1853.1	1906.9	1930.7
62.5°	1631.6	1610.9	1646.3	1692.8	1703.1
65°	1417.9	1400.5	1436.0	1465.9	1473.2
67.5°	1201.2	1191.4	1227.0	1247.9	1250.0
70°	990.0	978.7	1016.8	1029.0	1021.8
72.5°	784.7	781.1	810.7	814.5	800.8
75°	596.5	595.0	621.1	609.6	597.3
77.5°	421.8	422.7	440.5	426.5	420.4
80°	270.9	278.8	283.9	281.2	276.9
82.5°	152.3	162.2	166.3	183.3	190.6
85°	70.7	77.9	93.8	110.3	117.5
87.5°	24.0	29.9	38.8	41.9	39.4
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	17.73	19.31	18.10	19.63	19.94	18.02	19.61	18.39	19.92	20.24
	3H	19.19	20.61	19.56	20.94	21.30	19.48	20.90	19.86	21.23	21.59
	4H	19.61	20.95	20.01	21.29	21.67	19.88	21.22	20.28	21.56	21.94
	6H	19.81	21.05	20.23	21.42	21.81	20.07	21.30	20.48	21.67	22.06
	8H	19.84	21.02	20.27	21.41	21.81	20.11	21.29	20.53	21.68	22.08
	12H	19.84	20.97	20.27	21.35	21.78	20.13	21.26	20.56	21.64	22.07
4H	2H	18.30	19.64	18.70	19.99	20.37	18.54	19.88	18.94	20.23	20.60
	3H	19.93	21.05	20.34	21.44	21.84	20.18	21.29	20.59	21.69	22.09
	4H	20.44	21.44	20.87	21.86	22.30	20.67	21.67	21.10	22.09	22.53
	6H	20.72	21.59	21.18	22.04	22.49	20.94	21.81	21.39	22.25	22.71
	8H	20.77	21.58	21.23	22.02	22.49	21.00	21.81	21.46	22.25	22.72
	12H	20.78	21.51	21.26	21.98	22.45	21.04	21.77	21.52	22.25	22.72
8H	4H	20.63	21.45	21.09	21.89	22.36	20.84	21.66	21.30	22.10	22.57
	6H	20.97	21.64	21.46	22.13	22.61	21.16	21.83	21.66	22.32	22.80
	8H	21.04	21.64	21.55	22.15	22.63	21.25	21.86	21.77	22.36	22.85
	12H	21.07	21.60	21.58	22.10	22.66	21.34	21.87	21.84	22.36	22.92
12H	4H	20.63	21.36	21.11	21.84	22.31	20.84	21.57	21.32	22.04	22.51
	6H	20.97	21.57	21.48	22.08	22.56	21.16	21.76	21.67	22.27	22.76
	8H	21.07	21.60	21.58	22.09	22.66	21.29	21.82	21.79	22.31	22.87