

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: P1499591

Luminaire Tested: MAE-G-4-120-3LO-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499591
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-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

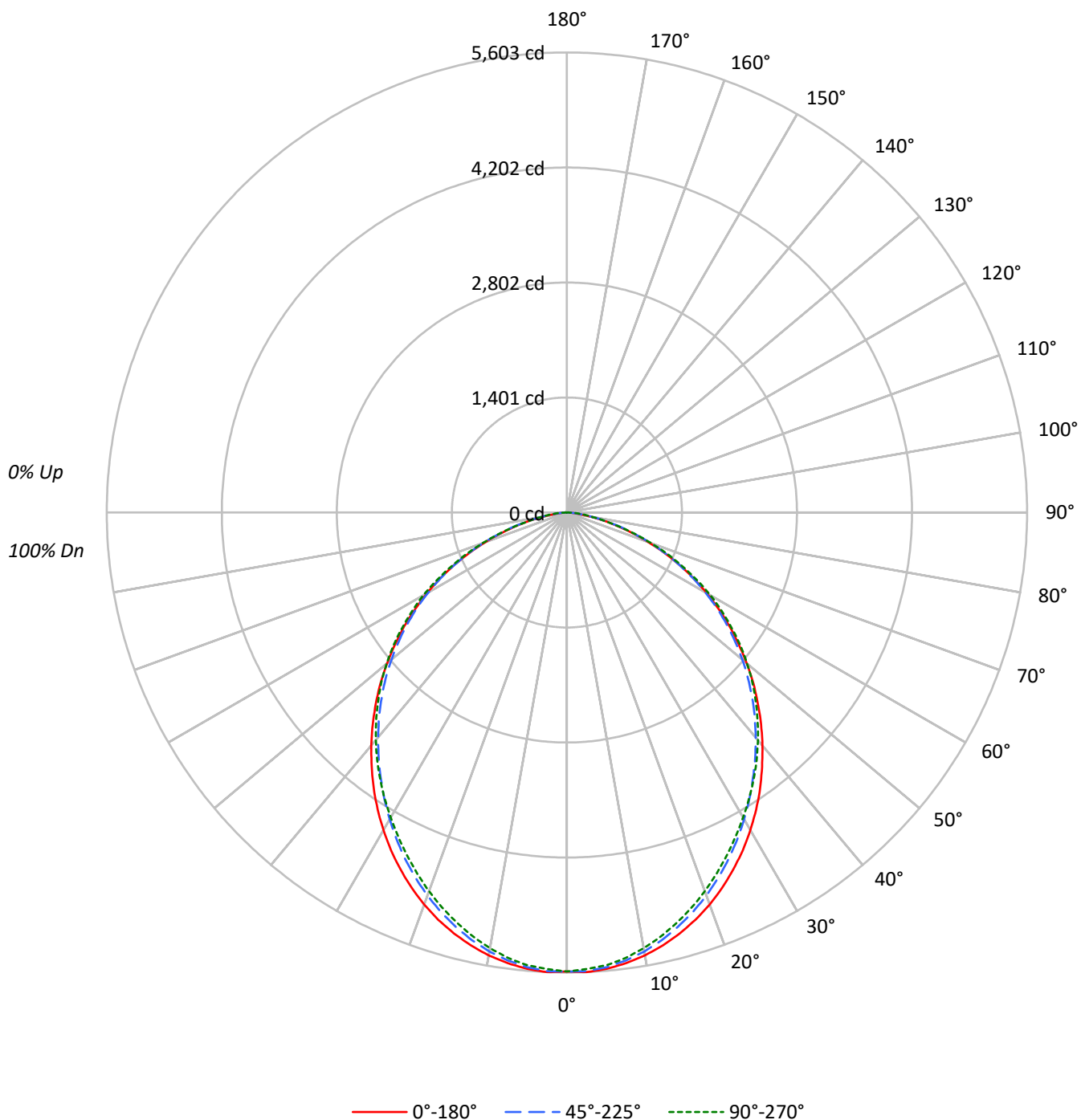
Lumens per Lamp: N/A
Luminaire Lumens: 13611.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 160.9
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	80	98	90	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	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7522	7522	7522
5°	7534	7507	7475
10°	7483	7417	7361
15°	7394	7277	7205
20°	7276	7107	7028
25°	7119	6916	6839
30°	6941	6703	6664
35°	6738	6489	6512
40°	6507	6280	6356
45°	6257	6069	6187
50°	5983	5836	5995
55°	5672	5571	5742
60°	5290	5238	5436
65°	4815	4806	4945
70°	4160	4229	4293
75°	3318	3458	3400
80°	2256	2426	2450
85°	1184	1655	2109

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6257 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	525.7	3.9
10°-20°	1471.8	10.8
20°-30°	2151.5	15.8
30°-40°	2493.8	18.3
40°-50°	2488.5	18.3
50°-60°	2143.8	15.8
60°-70°	1501.4	11.0
70°-80°	700.4	5.1
80°-90°	134.1	1.0
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°	4149.0	30.5
0°-40°	6642.8	48.8
0°-60°	11275.0	82.8
0°-90°	13611.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13611.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5590	5590	5590	5590	5590	
5°	5578	5558	5558	5526	5534	529
15°	5308	5270	5224	5167	5172	1496
25°	4796	4737	4658	4597	4607	2208
35°	4102	4026	3950	3938	3965	2563
45°	3288	3223	3190	3223	3252	2537
55°	2418	2364	2375	2427	2448	2159
65°	1512	1483	1510	1544	1553	1494
75°	638	631	665	663	654	686
85°	77	86	107	128	137	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5590.2	5590.2	5590.2	5590.2	5590.2
2.5°	5602.7	5584.7	5590.2	5564.4	5564.1
5°	5578.3	5557.9	5558.3	5525.5	5534.3
7.5°	5535.2	5511.8	5502.9	5465.2	5472.3
10°	5477.0	5447.8	5428.6	5383.4	5387.8
12.5°	5399.6	5367.1	5335.4	5282.3	5288.9
15°	5308.1	5270.4	5224.0	5167.4	5172.4
17.5°	5202.3	5158.6	5101.3	5037.2	5047.0
20°	5081.3	5031.7	4963.7	4896.5	4908.3
22.5°	4945.2	4890.6	4815.0	4750.4	4760.4
25°	4795.5	4737.1	4658.3	4596.6	4607.0
27.5°	4638.0	4572.5	4489.6	4437.1	4449.0
30°	4467.5	4398.0	4314.1	4270.7	4289.4
32.5°	4287.5	4216.1	4135.3	4106.9	4129.3
35°	4101.9	4026.0	3950.5	3937.9	3964.7
37.5°	3902.8	3833.9	3764.8	3768.3	3795.1
40°	3704.8	3633.4	3575.6	3589.8	3618.8
42.5°	3499.7	3432.8	3384.8	3411.2	3437.3
45°	3288.2	3222.9	3189.7	3222.9	3251.6
47.5°	3078.6	3013.7	2992.4	3031.6	3064.0
50°	2858.3	2799.3	2788.3	2836.4	2863.8
52.5°	2636.3	2580.5	2582.7	2635.3	2663.6
55°	2418.1	2364.2	2374.8	2427.4	2448.0
57.5°	2191.4	2149.2	2164.6	2213.1	2236.6
60°	1965.7	1926.5	1946.4	1996.4	2020.1
62.5°	1739.1	1705.9	1729.5	1775.6	1787.9
65°	1512.4	1483.0	1509.5	1543.7	1553.2
67.5°	1282.1	1261.7	1292.3	1320.3	1324.8
70°	1057.4	1036.4	1075.1	1095.2	1091.3
72.5°	839.0	827.6	862.0	874.6	864.2
75°	638.2	631.2	665.2	662.8	654.1
77.5°	452.1	450.0	477.1	472.0	469.5
80°	291.1	299.2	313.1	318.2	316.2
82.5°	164.4	176.2	187.5	210.3	219.7
85°	76.7	86.2	107.2	127.7	136.6
87.5°	25.9	33.3	44.7	48.5	45.7
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	17.94	19.53	18.31	19.84	20.16	18.14	19.72	18.50	20.04	20.35
	3H	19.40	20.83	19.78	21.16	21.52	19.63	21.06	20.01	21.38	21.75
	4H	19.83	21.17	20.23	21.52	21.89	20.06	21.40	20.46	21.75	22.13
	6H	20.04	21.28	20.45	21.64	22.04	20.28	21.52	20.69	21.88	22.28
	8H	20.07	21.25	20.50	21.64	22.04	20.33	21.51	20.76	21.90	22.30
	12H	20.07	21.20	20.50	21.58	22.01	20.36	21.49	20.79	21.88	22.31
4H	2H	18.50	19.84	18.90	20.19	20.57	18.66	20.00	19.06	20.35	20.72
	3H	20.14	21.26	20.55	21.65	22.05	20.35	21.46	20.76	21.86	22.26
	4H	20.65	21.66	21.09	22.07	22.51	20.87	21.87	21.30	22.29	22.72
	6H	20.94	21.81	21.40	22.26	22.71	21.17	22.04	21.63	22.49	22.94
	8H	20.99	21.80	21.45	22.25	22.71	21.25	22.06	21.71	22.51	22.97
	12H	21.00	21.73	21.48	22.21	22.68	21.30	22.03	21.79	22.51	22.98
8H	4H	20.85	21.67	21.31	22.11	22.58	21.05	21.86	21.51	22.30	22.77
	6H	21.20	21.87	21.69	22.36	22.84	21.41	22.08	21.91	22.57	23.05
	8H	21.27	21.87	21.78	22.38	22.87	21.52	22.13	22.03	22.63	23.12
	12H	21.31	21.84	21.82	22.33	22.89	21.62	22.15	22.13	22.65	23.21
12H	4H	20.85	21.58	21.33	22.06	22.53	21.04	21.77	21.53	22.25	22.72
	6H	21.20	21.80	21.71	22.31	22.80	21.41	22.01	21.92	22.52	23.01
	8H	21.31	21.84	21.82	22.33	22.89	21.56	22.09	22.07	22.58	23.14