

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: P1499363

Luminaire Tested: MAE-G-4-120-2LO-STD-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499363
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-4-120-2LO-STD-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

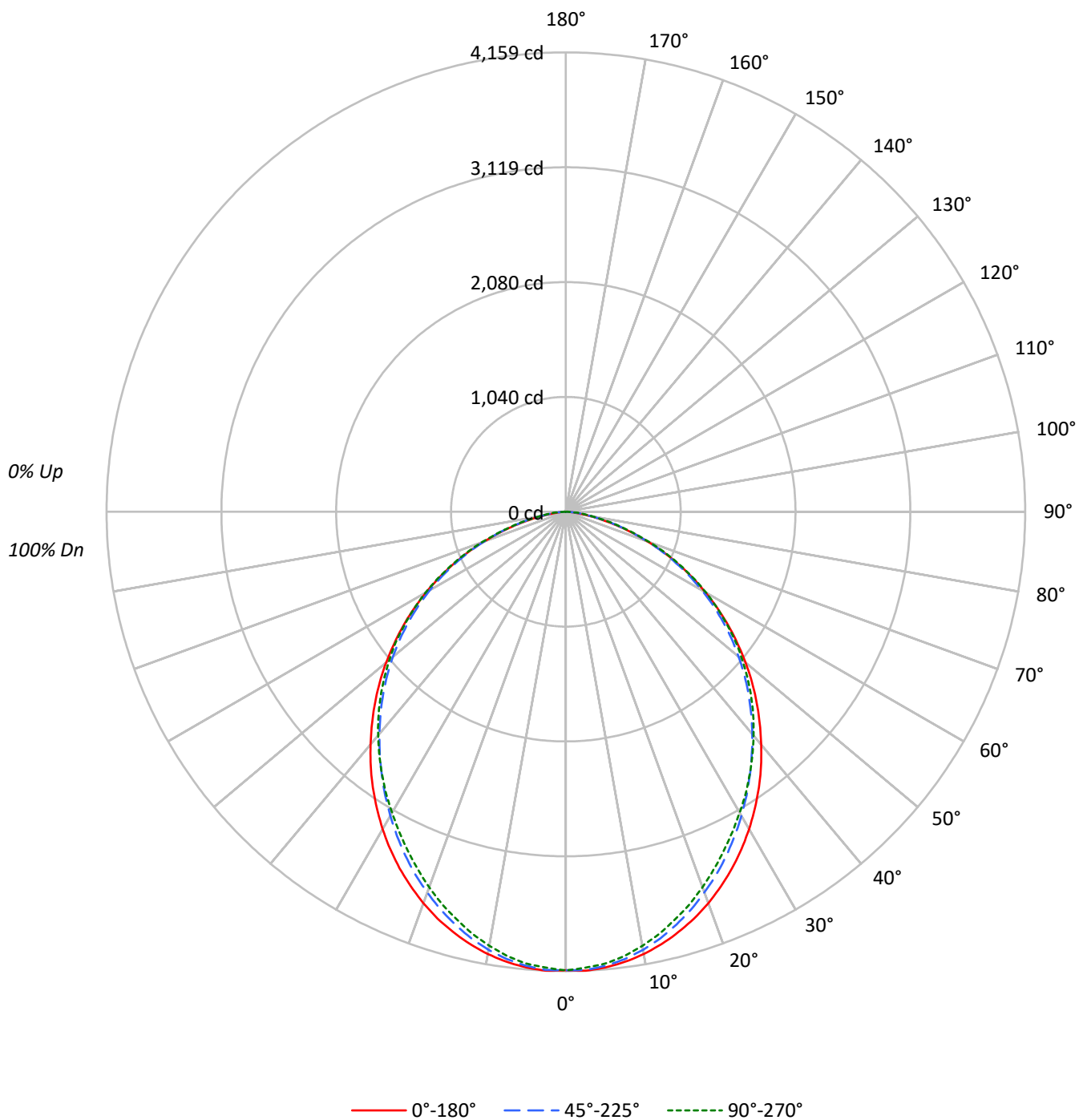
Lumens per Lamp: N/A
Luminaire Lumens: 10038.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 116.5
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	80	98	90	85	79	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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5586	5586	5586
5°	5593	5574	5545
10°	5555	5502	5451
15°	5488	5390	5322
20°	5400	5252	5180
25°	5287	5101	5026
30°	5155	4938	4888
35°	5005	4771	4766
40°	4833	4612	4645
45°	4648	4451	4518
50°	4446	4279	4363
55°	4213	4077	4180
60°	3933	3828	3953
65°	3581	3508	3623
70°	3099	3091	3181
75°	2476	2555	2600
80°	1688	1850	1941
85°	880	1297	1694

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4648 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	390.1	3.9
10°-20°	1090.0	10.9
20°-30°	1589.2	15.8
30°-40°	1837.8	18.3
40°-50°	1829.4	18.2
50°-60°	1572.7	15.7
60°-70°	1102.6	11.0
70°-80°	522.3	5.2
80°-90°	104.0	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°	3069.3	30.6
0°-40°	4907.1	48.9
0°-60°	8309.2	82.8
0°-90°	10038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4151	4151	4151	4151	4151	
5°	4141	4128	4127	4100	4106	393
15°	3940	3910	3869	3820	3821	1110
25°	3562	3513	3436	3384	3386	1639
35°	3047	2983	2905	2888	2902	1904
45°	2443	2383	2339	2356	2374	1884
55°	1796	1747	1738	1767	1782	1604
65°	1125	1096	1102	1125	1138	1113
75°	476	465	491	498	500	512
85°	57	66	84	102	110	84
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4151.3	4151.3	4151.3	4151.3	4151.3
2.5°	4159.2	4148.0	4151.3	4130.4	4131.1
5°	4141.4	4128.0	4126.7	4099.7	4105.8
7.5°	4109.7	4093.2	4084.5	4052.9	4058.1
10°	4065.8	4044.6	4027.0	3987.8	3990.1
12.5°	4009.5	3984.5	3955.8	3909.9	3913.2
15°	3939.6	3910.4	3869.2	3819.5	3820.7
17.5°	3862.2	3829.3	3773.6	3720.2	3725.5
20°	3771.1	3733.9	3668.1	3612.8	3617.6
22.5°	3669.9	3626.9	3557.4	3501.7	3502.6
25°	3561.5	3513.2	3436.1	3384.1	3385.5
27.5°	3444.1	3390.1	3310.0	3261.8	3266.3
30°	3317.8	3260.4	3178.5	3138.9	3146.1
32.5°	3184.8	3125.1	3044.4	3016.3	3028.7
35°	3046.9	2983.2	2904.6	2888.2	2901.9
37.5°	2903.0	2840.1	2766.3	2761.3	2775.4
40°	2751.6	2690.9	2625.9	2628.6	2644.5
42.5°	2598.7	2539.6	2484.2	2495.0	2512.2
45°	2442.8	2383.4	2339.4	2356.0	2374.3
47.5°	2286.9	2228.1	2194.2	2215.7	2232.2
50°	2124.1	2069.6	2044.0	2069.2	2084.4
52.5°	1958.3	1907.7	1892.2	1920.5	1941.2
55°	1796.0	1747.4	1737.8	1767.0	1781.8
57.5°	1628.5	1587.6	1582.8	1610.4	1625.8
60°	1461.5	1423.3	1422.7	1452.1	1468.8
62.5°	1292.9	1258.3	1263.2	1291.1	1304.2
65°	1124.9	1096.0	1101.8	1124.9	1138.1
67.5°	958.5	932.4	943.9	969.5	976.1
70°	787.7	767.6	785.7	805.1	808.5
72.5°	629.3	611.8	633.8	647.7	648.1
75°	476.2	465.3	491.4	497.8	500.1
77.5°	336.9	335.8	355.4	362.4	365.6
80°	217.8	224.9	238.7	249.3	250.5
82.5°	123.3	131.7	145.8	166.6	174.7
85°	57.0	65.8	84.0	102.0	109.7
87.5°	19.2	25.8	35.5	38.5	36.7
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	16.91	18.49	17.27	18.80	19.12	16.99	18.57	17.35	18.88	19.20
	3H	18.38	19.80	18.76	20.13	20.49	18.51	19.94	18.89	20.26	20.62
	4H	18.81	20.15	19.21	20.50	20.87	18.97	20.31	19.37	20.66	21.03
	6H	19.02	20.26	19.43	20.63	21.02	19.23	20.46	19.64	20.83	21.22
	8H	19.05	20.23	19.48	20.62	21.02	19.29	20.47	19.72	20.86	21.26
	12H	19.05	20.18	19.48	20.56	20.99	19.33	20.46	19.76	20.84	21.27
4H	2H	17.45	18.78	17.85	19.13	19.51	17.51	18.85	17.91	19.20	19.58
	3H	19.10	20.21	19.51	20.61	21.01	19.23	20.34	19.64	20.74	21.14
	4H	19.62	20.62	20.05	21.03	21.47	19.79	20.79	20.22	21.20	21.64
	6H	19.91	20.78	20.37	21.22	21.68	20.13	21.00	20.59	21.44	21.90
	8H	19.96	20.77	20.42	21.22	21.68	20.22	21.04	20.68	21.48	21.95
	12H	19.97	20.70	20.45	21.18	21.65	20.29	21.02	20.77	21.50	21.97
8H	4H	19.81	20.63	20.28	21.07	21.54	19.97	20.78	20.43	21.23	21.69
	6H	20.17	20.84	20.66	21.33	21.81	20.38	21.05	20.88	21.54	22.02
	8H	20.24	20.85	20.76	21.36	21.84	20.52	21.12	21.03	21.63	22.11
	12H	20.29	20.82	20.79	21.31	21.87	20.63	21.17	21.14	21.66	22.22
12H	4H	19.82	20.55	20.30	21.03	21.50	19.97	20.70	20.45	21.17	21.64
	6H	20.18	20.78	20.69	21.29	21.78	20.38	20.99	20.89	21.49	21.98
	8H	20.29	20.82	20.80	21.31	21.88	20.56	21.09	21.06	21.58	22.14