

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: P1499456

Luminaire Tested: MAE-G-4-120-2STD-STD-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499456
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-4-120-2STD-STD-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

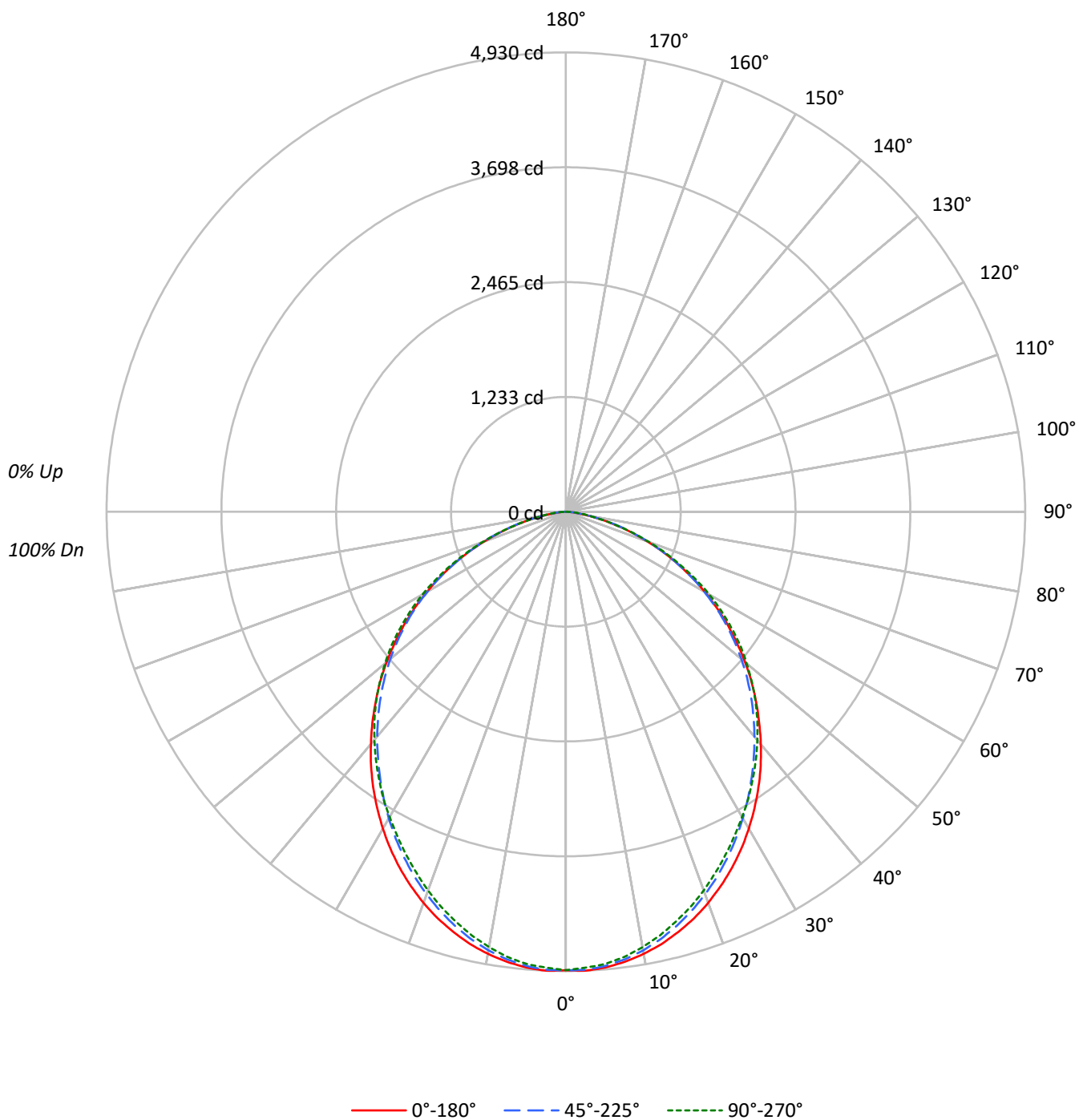
Lumens per Lamp: N/A
Luminaire Lumens: 11975.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 136.8
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
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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6619	6619	6619
5°	6629	6608	6578
10°	6583	6529	6480
15°	6502	6407	6345
20°	6396	6255	6193
25°	6261	6086	6025
30°	6102	5903	5876
35°	5922	5712	5746
40°	5717	5532	5615
45°	5496	5347	5477
50°	5254	5148	5302
55°	4977	4910	5084
60°	4643	4616	4792
65°	4222	4223	4344
70°	3646	3688	3740
75°	2905	2989	2953
80°	1967	2076	2082
85°	1010	1386	1771

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5496 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	462.7	3.9
10°-20°	1295.7	10.8
20°-30°	1894.6	15.8
30°-40°	2197.3	18.3
40°-50°	2193.4	18.3
50°-60°	1889.5	15.8
60°-70°	1318.6	11.0
70°-80°	609.1	5.1
80°-90°	114.2	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°	3652.9	30.5
0°-40°	5850.2	48.9
0°-60°	9933.1	82.9
0°-90°	11975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11975.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4920	4920	4920	4920	4920	
5°	4908	4890	4892	4864	4870	466
15°	4668	4635	4599	4552	4555	1316
25°	4218	4169	4100	4053	4058	1941
35°	3606	3544	3478	3476	3498	2253
45°	2888	2834	2810	2849	2878	2228
55°	2122	2080	2093	2144	2167	1895
65°	1326	1306	1326	1350	1364	1312
75°	559	553	575	570	568	601
85°	65	74	90	107	115	97
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4919.7	4919.7	4919.7	4919.7	4919.7
2.5°	4929.7	4913.7	4919.7	4898.2	4896.8
5°	4908.2	4890.4	4892.3	4864.0	4870.5
7.5°	4870.5	4849.8	4844.3	4812.4	4818.4
10°	4818.1	4792.8	4779.1	4739.8	4742.9
12.5°	4751.0	4722.3	4698.2	4653.1	4658.3
15°	4667.5	4635.3	4599.3	4551.9	4554.8
17.5°	4575.6	4540.5	4489.9	4439.6	4447.8
20°	4466.8	4428.3	4368.7	4316.3	4324.9
22.5°	4346.3	4302.6	4240.5	4188.4	4193.2
25°	4217.5	4169.3	4099.8	4052.7	4058.5
27.5°	4077.7	4024.0	3953.2	3911.0	3920.8
30°	3927.4	3871.0	3799.4	3768.2	3782.1
32.5°	3769.2	3711.4	3641.8	3625.5	3646.1
35°	3605.5	3543.9	3477.5	3475.5	3498.5
37.5°	3435.0	3374.5	3314.7	3326.9	3350.8
40°	3254.7	3197.8	3149.4	3171.1	3196.9
42.5°	3073.2	3018.6	2981.8	3013.3	3041.3
45°	2888.1	2833.8	2810.3	2848.6	2878.4
47.5°	2704.1	2649.3	2637.7	2681.9	2708.6
50°	2510.2	2461.4	2459.2	2507.1	2533.1
52.5°	2314.7	2269.6	2277.9	2329.4	2361.3
55°	2121.6	2079.6	2093.3	2144.5	2167.1
57.5°	1923.0	1889.7	1907.6	1953.3	1975.6
60°	1725.4	1694.7	1715.4	1758.9	1780.8
62.5°	1525.6	1498.9	1522.6	1559.1	1573.4
65°	1326.1	1306.0	1326.5	1350.0	1364.3
67.5°	1129.6	1110.8	1133.1	1155.8	1161.0
70°	926.7	914.9	937.4	950.9	950.7
72.5°	739.9	728.3	749.8	754.8	751.0
75°	558.8	552.6	574.9	570.0	568.1
77.5°	394.2	397.1	408.8	405.1	404.3
80°	253.9	262.8	267.9	270.5	268.7
82.5°	142.7	150.9	158.6	177.4	184.8
85°	65.4	73.5	89.8	107.3	114.7
87.5°	22.1	28.4	37.7	40.6	38.4
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	17.49	19.08	17.86	19.39	19.71	17.72	19.30	18.08	19.61	19.93
	3H	18.96	20.38	19.34	20.71	21.07	19.18	20.61	19.56	20.94	21.30
	4H	19.38	20.72	19.78	21.07	21.45	19.60	20.94	20.00	21.29	21.66
	6H	19.59	20.83	20.00	21.19	21.58	19.81	21.04	20.22	21.41	21.80
	8H	19.62	20.80	20.04	21.19	21.59	19.85	21.03	20.28	21.42	21.82
	12H	19.62	20.74	20.05	21.13	21.56	19.88	21.01	20.31	21.39	21.82
4H	2H	18.05	19.39	18.45	19.74	20.11	18.23	19.57	18.63	19.92	20.30
	3H	19.69	20.81	20.10	21.20	21.60	19.89	21.00	20.30	21.40	21.80
	4H	20.20	21.21	20.64	21.62	22.06	20.39	21.39	20.83	21.81	22.25
	6H	20.49	21.36	20.95	21.80	22.26	20.68	21.55	21.14	21.99	22.45
	8H	20.53	21.35	20.99	21.79	22.26	20.75	21.56	21.21	22.01	22.47
	12H	20.55	21.27	21.03	21.75	22.22	20.80	21.53	21.28	22.00	22.48
8H	4H	20.39	21.21	20.85	21.65	22.11	20.56	21.38	21.03	21.82	22.29
	6H	20.73	21.41	21.23	21.90	22.37	20.91	21.58	21.41	22.07	22.55
	8H	20.80	21.40	21.32	21.91	22.40	21.01	21.61	21.52	22.12	22.61
	12H	20.84	21.37	21.35	21.86	22.42	21.10	21.63	21.61	22.13	22.69
12H	4H	20.39	21.12	20.87	21.60	22.07	20.56	21.29	21.04	21.77	22.24
	6H	20.73	21.34	21.25	21.84	22.33	20.91	21.51	21.42	22.02	22.51
	8H	20.84	21.37	21.35	21.86	22.42	21.05	21.58	21.55	22.07	22.63