

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: P1498628

Luminaire Tested: MAE-G-2-120-3HI-HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498628
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-2-120-3HI-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

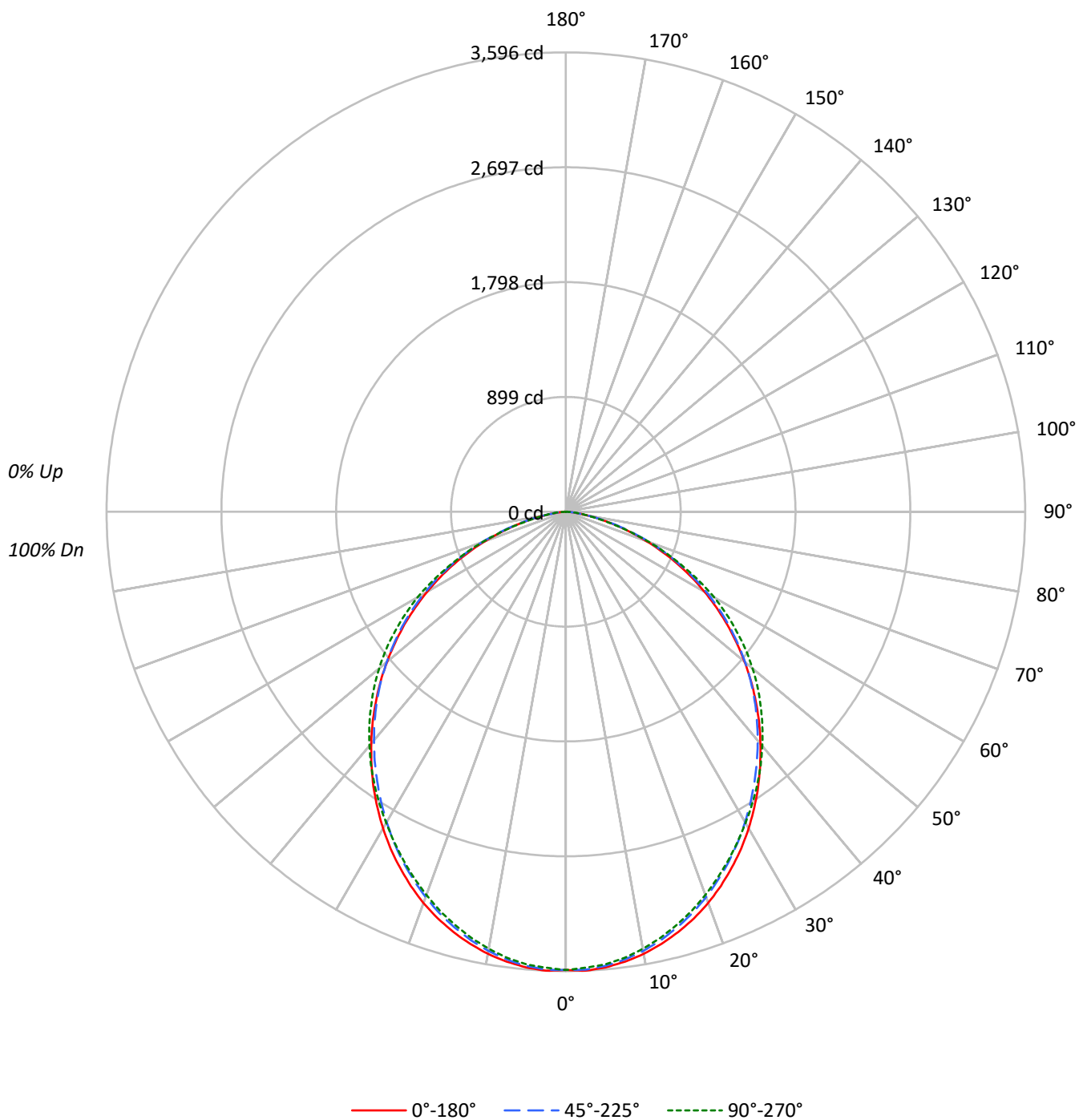
Lumens per Lamp: N/A
Luminaire Lumens: 8825.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 113
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	92	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	61		
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°	9653	9653	9653
5°	9670	9639	9607
10°	9603	9539	9491
15°	9486	9382	9331
20°	9331	9192	9141
25°	9127	8969	8934
30°	8893	8717	8741
35°	8628	8460	8578
40°	8328	8210	8405
45°	8003	7954	8214
50°	7647	7665	7989
55°	7247	7330	7661
60°	6750	6901	7223
65°	6132	6322	6462
70°	5281	5493	5452
75°	4196	4363	4079
80°	2825	2862	2661
85°	1451	1794	2186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.7	3.8
10°-20°	948.9	10.8
20°-30°	1393.4	15.8
30°-40°	1622.0	18.4
40°-50°	1625.5	18.4
50°-60°	1404.7	15.9
60°-70°	977.5	11.1
70°-80°	439.1	5.0
80°-90°	76.2	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°	2679.9	30.4
0°-40°	4302.0	48.7
0°-60°	7332.2	83.1
0°-90°	8825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3587	3587	3587	3587	3587	
5°	3580	3564	3568	3552	3556	340
15°	3405	3383	3368	3344	3349	960
25°	3074	3046	3021	2997	3009	1415
35°	2626	2593	2575	2586	2611	1641
45°	2103	2079	2090	2131	2158	1623
55°	1545	1527	1562	1614	1633	1379
65°	963	960	993	1011	1015	952
75°	404	407	420	404	392	434
85°	47	50	58	67	71	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3587.0	3587.0	3587.0	3587.0	3587.0
2.5°	3595.9	3581.2	3587.0	3574.0	3571.5
5°	3579.8	3564.5	3568.3	3551.6	3556.4
7.5°	3552.0	3535.8	3535.3	3517.1	3521.5
10°	3514.3	3495.2	3490.8	3470.0	3473.4
12.5°	3464.1	3444.3	3434.9	3411.3	3417.0
15°	3405.1	3383.4	3367.7	3344.3	3349.4
17.5°	3336.9	3312.7	3293.9	3266.6	3275.2
20°	3258.4	3232.5	3209.9	3181.0	3192.1
22.5°	3170.5	3143.3	3117.4	3091.5	3102.7
25°	3073.9	3046.1	3020.8	2997.1	3008.8
27.5°	2972.1	2941.3	2915.7	2898.6	2911.5
30°	2862.0	2830.1	2805.3	2794.5	2813.0
32.5°	2745.7	2714.2	2692.2	2692.2	2713.4
35°	2626.3	2593.1	2575.2	2586.2	2611.1
37.5°	2498.0	2470.0	2457.5	2479.3	2504.6
40°	2370.7	2341.6	2337.1	2366.1	2392.6
42.5°	2239.2	2213.3	2215.0	2252.4	2277.1
45°	2103.0	2078.9	2090.0	2131.2	2158.3
47.5°	1969.1	1944.4	1962.7	2008.0	2037.1
50°	1826.7	1806.7	1830.9	1881.6	1908.3
52.5°	1685.3	1666.0	1697.5	1751.0	1776.8
55°	1544.7	1527.1	1562.3	1614.3	1632.9
57.5°	1399.0	1388.9	1425.3	1471.0	1490.4
60°	1254.1	1245.4	1282.3	1324.6	1342.1
62.5°	1109.0	1103.8	1139.0	1173.3	1179.2
65°	963.0	959.8	992.8	1011.2	1014.9
67.5°	815.2	816.3	846.4	856.0	855.6
70°	671.2	670.5	698.1	700.8	693.0
72.5°	531.3	534.8	552.7	548.5	536.1
75°	403.6	406.9	419.6	404.1	392.3
77.5°	284.9	287.6	293.4	276.3	269.0
80°	182.3	187.8	184.7	176.7	171.7
82.5°	101.8	107.6	104.9	112.9	116.6
85°	47.0	50.5	58.1	67.1	70.8
87.5°	16.0	19.1	23.9	25.5	23.7
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	18.81	20.39	19.17	20.71	21.02	19.22	20.80	19.58	21.12	21.43
	3H	20.26	21.68	20.63	22.01	22.37	20.63	22.05	21.00	22.38	22.74
	4H	20.67	22.01	21.07	22.36	22.74	20.99	22.33	21.39	22.68	23.06
	6H	20.87	22.11	21.29	22.48	22.87	21.15	22.38	21.56	22.75	23.14
	8H	20.90	22.08	21.33	22.47	22.87	21.17	22.35	21.60	22.74	23.14
	12H	20.90	22.03	21.33	22.41	22.84	21.19	22.31	21.62	22.70	23.12
4H	2H	19.40	20.73	19.79	21.08	21.46	19.73	21.06	20.13	21.41	21.79
	3H	21.02	22.13	21.43	22.53	22.93	21.32	22.43	21.73	22.83	23.23
	4H	21.52	22.52	21.95	22.93	23.37	21.77	22.77	22.20	23.19	23.62
	6H	21.79	22.66	22.25	23.11	23.56	22.00	22.86	22.45	23.31	23.76
	8H	21.83	22.65	22.30	23.09	23.56	22.04	22.85	22.50	23.29	23.76
	12H	21.84	22.57	22.33	23.05	23.52	22.07	22.79	22.55	23.27	23.74
8H	4H	21.70	22.51	22.16	22.96	23.42	21.93	22.74	22.39	23.19	23.65
	6H	22.03	22.70	22.52	23.19	23.67	22.20	22.87	22.70	23.36	23.84
	8H	22.09	22.69	22.61	23.20	23.69	22.27	22.87	22.78	23.38	23.87
	12H	22.13	22.65	22.63	23.15	23.71	22.33	22.86	22.84	23.35	23.92
12H	4H	21.70	22.42	22.18	22.90	23.37	21.93	22.65	22.41	23.13	23.60
	6H	22.02	22.62	22.53	23.13	23.62	22.19	22.80	22.71	23.30	23.79
	8H	22.12	22.65	22.63	23.14	23.70	22.30	22.82	22.80	23.32	23.88