

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: P1498028

Luminaire Tested: MAE-G-2-120-1HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

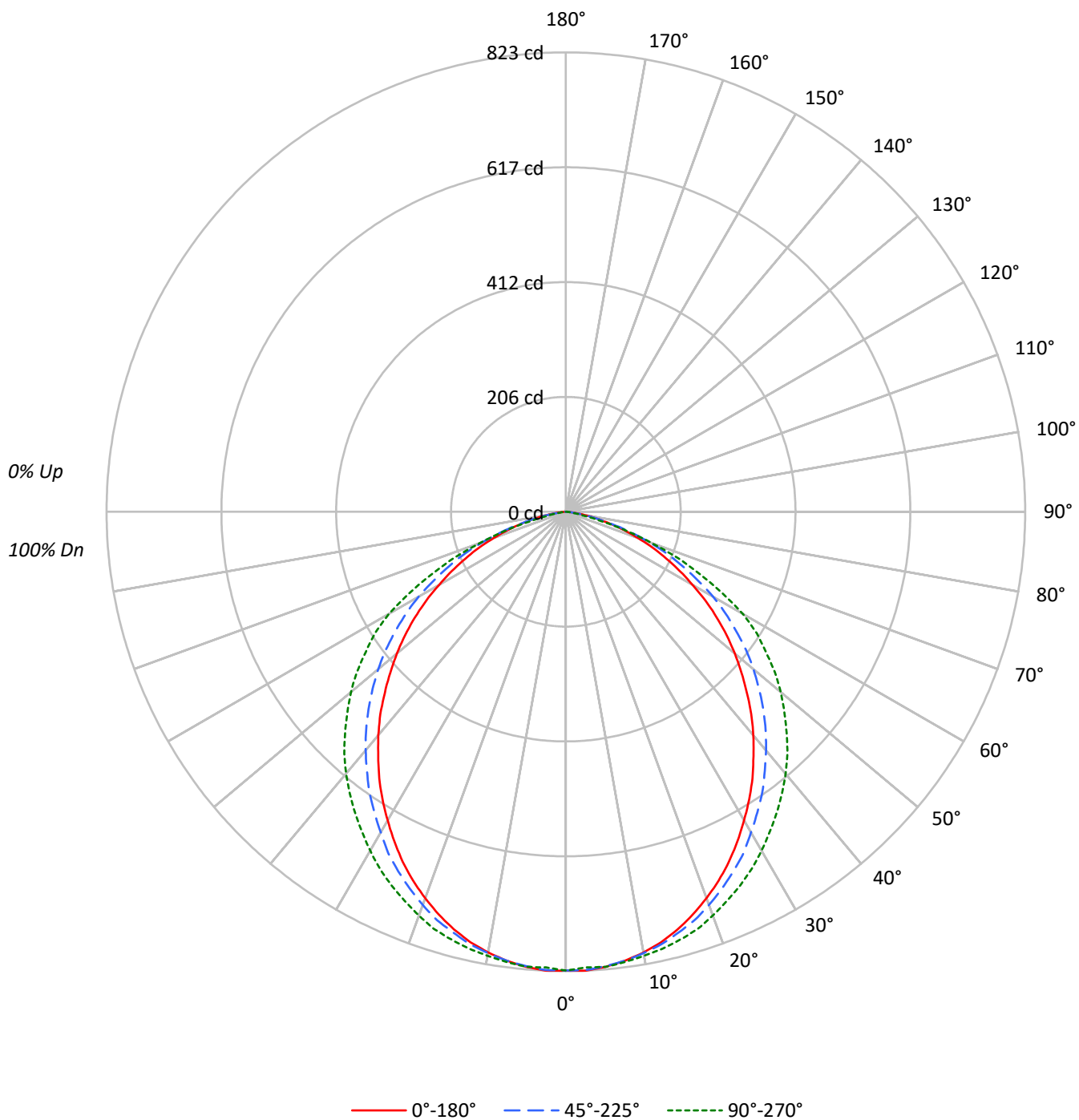
Lumens per Lamp: N/A
Luminaire Lumens: 2069.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	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	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2211	2211	2211
5°	2210	2207	2210
10°	2191	2194	2207
15°	2158	2174	2210
20°	2110	2147	2204
25°	2054	2110	2194
30°	1984	2061	2179
35°	1915	2016	2164
40°	1836	1961	2152
45°	1746	1904	2128
50°	1653	1837	2104
55°	1548	1748	2053
60°	1413	1642	1973
65°	1265	1468	1694
70°	1079	1238	1293
75°	836	897	726
80°	550	476	257
85°	293	219	145

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2128 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.8
10°-20°	220.6	10.7
20°-30°	327.9	15.9
30°-40°	385.6	18.6
40°-50°	389.1	18.8
50°-60°	337.9	16.3
60°-70°	230.0	11.1
70°-80°	89.6	4.3
80°-90°	10.7	0.5
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°	626.1	30.3
0°-40°	1011.7	48.9
0°-60°	1738.7	84.0
0°-90°	2069.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2069.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	822	822	822	822	822	
5°	818	817	817	817	818	78
15°	774	776	780	789	793	218
25°	692	695	711	728	739	318
35°	583	590	614	642	659	364
45°	459	471	500	539	559	354
55°	330	341	372	415	438	295
65°	199	208	231	255	266	197
75°	80	85	86	78	70	88
85°	10	10	7	6	5	14
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	821.8	821.8	821.8	821.8	821.8
2.5°	823.0	823.0	821.8	818.3	817.1
5°	818.3	817.1	817.1	817.1	818.3
7.5°	811.2	811.2	811.2	812.4	813.5
10°	801.7	801.7	802.9	805.3	807.6
12.5°	789.9	791.1	793.4	798.2	801.7
15°	774.5	775.7	780.4	788.7	793.4
17.5°	756.8	760.3	767.4	776.9	784.0
20°	736.7	740.2	749.7	761.5	769.8
22.5°	715.4	718.9	730.8	745.0	754.4
25°	691.7	695.3	710.7	728.4	739.0
27.5°	665.7	670.5	689.4	708.3	721.3
30°	638.5	644.5	663.4	687.0	701.2
32.5°	611.3	618.4	638.5	665.7	679.9
35°	583.0	590.1	613.7	642.1	658.6
37.5°	552.2	560.5	585.3	619.6	636.2
40°	522.7	530.9	558.1	594.8	612.5
42.5°	491.9	501.4	529.8	567.6	587.7
45°	458.8	470.6	500.2	539.2	559.3
47.5°	426.9	437.5	469.4	509.6	530.9
50°	394.9	406.8	438.7	480.1	502.6
52.5°	363.0	373.7	406.8	448.2	471.8
55°	329.9	340.6	372.5	415.0	437.5
57.5°	296.8	309.8	339.4	380.8	405.6
60°	262.5	274.3	305.1	346.5	366.6
62.5°	230.6	241.2	267.2	306.3	315.7
65°	198.7	208.1	230.6	255.4	266.1
67.5°	169.1	176.2	196.3	212.8	217.6
70°	137.2	144.3	157.3	166.7	164.4
72.5°	108.8	113.5	121.8	120.6	114.7
75°	80.4	85.1	86.3	78.0	69.8
77.5°	56.8	59.1	55.6	43.8	35.5
80°	35.5	36.7	30.7	18.9	16.6
82.5°	20.1	20.1	14.2	11.8	9.5
85°	9.5	9.5	7.1	5.9	4.7
87.5°	3.5	3.5	2.4	2.4	2.4
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	13.36	14.94	13.73	15.25	15.57	14.94	16.52	15.31	16.83	17.15
	3H	14.70	16.11	15.07	16.44	16.80	16.21	17.63	16.59	17.95	18.32
	4H	15.06	16.39	15.46	16.74	17.12	16.41	17.74	16.80	18.08	18.46
	6H	15.23	16.46	15.64	16.82	17.21	16.40	17.63	16.81	18.00	18.39
	8H	15.24	16.41	15.67	16.80	17.20	16.38	17.55	16.80	17.94	18.34
	12H	15.24	16.36	15.67	16.74	17.17	16.35	17.47	16.78	17.85	18.28
4H	2H	14.03	15.36	14.43	15.70	16.08	15.32	16.65	15.72	17.00	17.37
	3H	15.52	16.63	15.93	17.02	17.42	16.76	17.86	17.17	18.26	18.66
	4H	15.97	16.96	16.40	17.37	17.81	17.01	18.00	17.44	18.41	18.85
	6H	16.19	17.05	16.65	17.49	17.95	17.04	17.90	17.49	18.34	18.80
	8H	16.22	17.02	16.68	17.46	17.93	17.01	17.81	17.47	18.25	18.72
	12H	16.22	16.93	16.70	17.41	17.88	16.99	17.70	17.47	18.18	18.65
8H	4H	16.12	16.92	16.59	17.37	17.83	17.09	17.89	17.56	18.34	18.80
	6H	16.38	17.04	16.88	17.53	18.01	17.13	17.78	17.62	18.28	18.75
	8H	16.43	17.01	16.94	17.52	18.01	17.10	17.69	17.61	18.20	18.69
	12H	16.45	16.97	16.96	17.46	18.02	17.09	17.60	17.59	18.10	18.66
12H	4H	16.11	16.82	16.59	17.30	17.77	17.08	17.79	17.56	18.27	18.74
	6H	16.35	16.95	16.87	17.45	17.94	17.10	17.69	17.61	18.20	18.69
	8H	16.42	16.94	16.93	17.43	18.00	17.10	17.62	17.61	18.11	18.67