

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: P1498052

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498052
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-HI-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

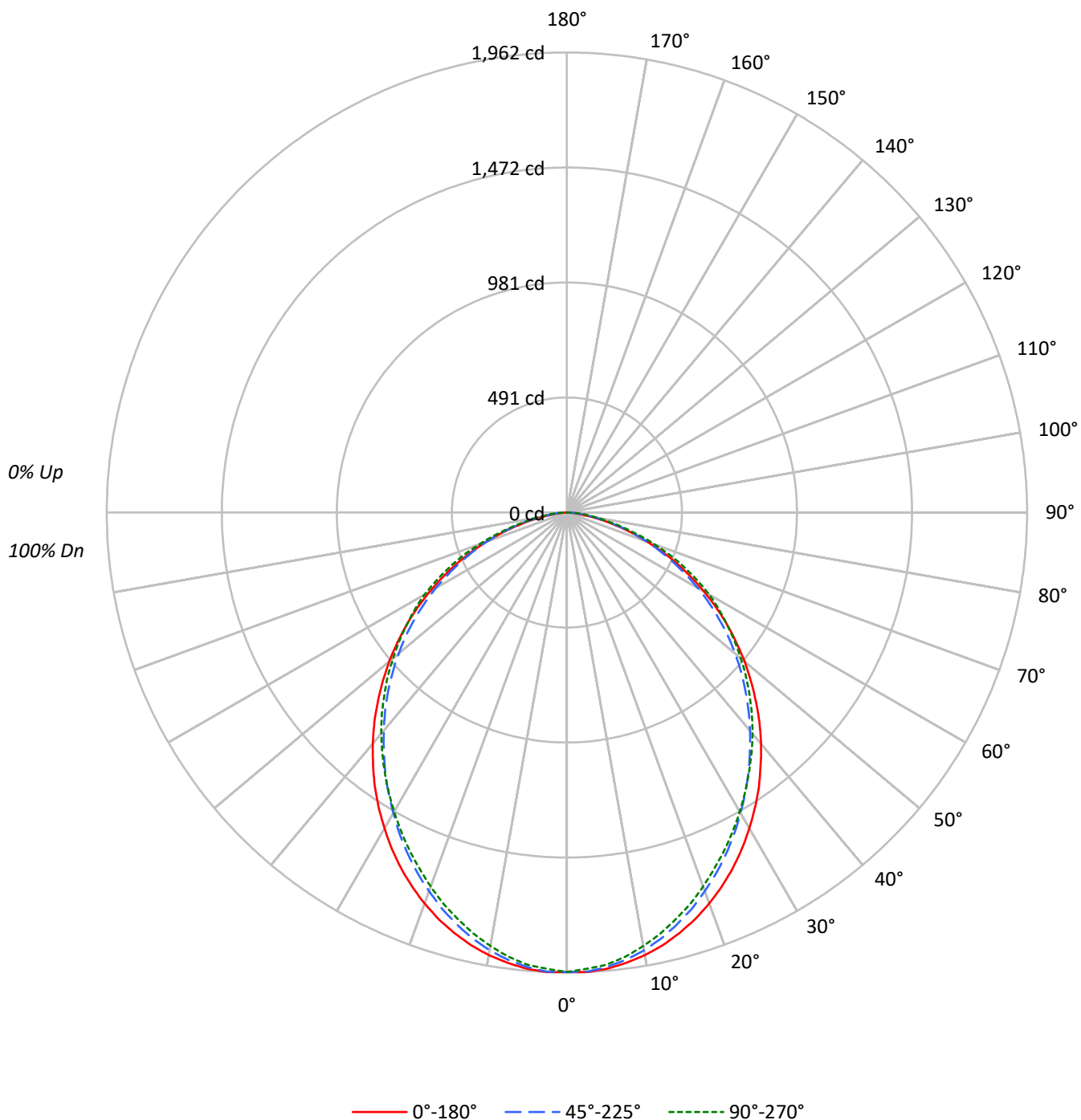
Lumens per Lamp: N/A
Luminaire Lumens: 4687.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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

TEST NUMBER: P1498052

CATALOG NUMBER: MAE-G-2-120-1HI-HI-30-WDDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498052

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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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5274	5274	5274
5°	5276	5255	5230
10°	5238	5180	5130
15°	5172	5063	5001
20°	5081	4921	4861
25°	4969	4768	4717
30°	4833	4597	4577
35°	4689	4436	4447
40°	4523	4267	4325
45°	4338	4099	4190
50°	4140	3921	4050
55°	3912	3713	3903
60°	3631	3475	3774
65°	3305	3168	3513
70°	2868	2850	3137
75°	2289	2429	2585
80°	1585	1881	2060
85°	886	1439	1874

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4338 cd/sqm

TEST NUMBER: P1498052

CATALOG NUMBER: MAE-G-2-120-1HI-HI-30-WDDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.9	3.9
10°-20°	512.7	10.9
20°-30°	744.5	15.9
30°-40°	856.6	18.3
40°-50°	847.6	18.1
50°-60°	725.7	15.5
60°-70°	512.0	10.9
70°-80°	249.4	5.3
80°-90°	54.5	1.2
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°	1441.2	30.7
0°-40°	2297.8	49.0
0°-60°	3871.1	82.6
0°-90°	4687.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4687.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1960	1960	1960	1960	1960	
5°	1953	1951	1946	1932	1936	185
15°	1856	1846	1818	1793	1795	523
25°	1673	1649	1606	1584	1589	770
35°	1427	1393	1350	1344	1354	892
45°	1140	1108	1077	1090	1101	879
55°	834	805	792	814	832	744
65°	519	496	498	535	552	514
75°	220	210	234	248	249	238
85°	29	35	47	57	61	41
90°	0	0	0	0	0	

TEST NUMBER: P1498052

CATALOG NUMBER: MAE-G-2-120-1HI-HI-30-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1959.8	1959.8	1959.8	1959.8	1959.8
2.5°	1962.0	1963.7	1959.8	1945.1	1947.6
5°	1953.1	1951.4	1945.5	1931.6	1936.0
7.5°	1937.5	1934.8	1924.2	1907.7	1910.4
10°	1916.8	1911.4	1895.6	1875.0	1877.3
12.5°	1890.0	1882.7	1860.3	1837.0	1839.4
15°	1856.4	1846.0	1817.5	1792.8	1795.2
17.5°	1818.0	1805.9	1771.5	1744.6	1750.1
20°	1774.4	1758.1	1718.5	1692.9	1697.5
22.5°	1726.3	1705.9	1664.3	1639.6	1643.1
25°	1673.4	1648.6	1605.9	1584.5	1588.8
27.5°	1616.3	1589.2	1545.1	1525.5	1532.1
30°	1555.5	1526.2	1479.5	1465.7	1473.0
32.5°	1493.0	1461.8	1415.7	1406.6	1413.8
35°	1427.4	1393.4	1350.3	1344.5	1353.6
37.5°	1357.1	1324.4	1281.8	1284.1	1292.7
40°	1287.6	1253.6	1214.6	1220.9	1231.1
42.5°	1215.2	1182.5	1146.8	1155.8	1167.9
45°	1139.9	1108.5	1077.2	1089.5	1101.0
47.5°	1064.2	1033.1	1007.5	1022.1	1035.8
50°	989.0	959.3	936.7	954.6	967.5
52.5°	910.2	881.8	865.4	884.3	901.0
55°	833.8	804.9	791.5	814.2	832.0
57.5°	754.8	731.0	719.4	746.4	768.6
60°	674.6	651.1	645.7	680.1	701.3
62.5°	596.2	573.2	570.4	611.0	626.3
65°	519.0	496.3	497.5	535.1	551.7
67.5°	442.4	421.7	430.6	466.9	478.1
70°	364.5	346.0	362.2	393.0	398.7
72.5°	291.3	275.7	297.9	319.7	321.3
75°	220.2	210.5	233.6	248.2	248.6
77.5°	157.7	152.5	174.0	184.2	185.0
80°	102.3	104.5	121.4	129.4	132.9
82.5°	59.6	64.9	78.3	91.3	94.9
85°	28.7	35.1	46.6	56.6	60.7
87.5°	9.9	14.1	19.5	21.6	21.0
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	16.58	18.16	16.94	18.47	18.79	16.73	18.31	17.09	18.63	18.94
	3H	18.03	19.45	18.40	19.78	20.14	18.38	19.80	18.76	20.13	20.49
	4H	18.46	19.80	18.86	20.14	20.52	18.89	20.22	19.28	20.57	20.95
	6H	18.68	19.92	19.09	20.28	20.67	19.19	20.42	19.60	20.79	21.18
	8H	18.71	19.89	19.14	20.28	20.68	19.28	20.46	19.70	20.85	21.25
	12H	18.72	19.85	19.15	20.23	20.66	19.34	20.47	19.77	20.85	21.28
4H	2H	17.09	18.43	17.49	18.78	19.15	17.22	18.55	17.61	18.90	19.28
	3H	18.73	19.84	19.14	20.24	20.64	19.07	20.18	19.48	20.58	20.98
	4H	19.24	20.25	19.67	20.66	21.10	19.69	20.69	20.12	21.11	21.55
	6H	19.54	20.42	20.00	20.86	21.32	20.09	20.97	20.55	21.41	21.87
	8H	19.60	20.42	20.06	20.86	21.32	20.22	21.04	20.68	21.48	21.95
	12H	19.62	20.35	20.10	20.83	21.30	20.32	21.05	20.80	21.53	22.00
8H	4H	19.47	20.28	19.93	20.73	21.19	19.87	20.69	20.33	21.13	21.60
	6H	19.83	20.51	20.33	21.00	21.48	20.36	21.03	20.85	21.52	22.00
	8H	19.92	20.53	20.44	21.04	21.52	20.54	21.14	21.05	21.65	22.14
	12H	19.98	20.51	20.48	21.00	21.57	20.70	21.23	21.20	21.72	22.29
12H	4H	19.48	20.21	19.96	20.69	21.16	19.87	20.60	20.35	21.08	21.55
	6H	19.86	20.46	20.37	20.97	21.46	20.36	20.97	20.87	21.48	21.96
	8H	19.99	20.52	20.49	21.01	21.57	20.59	21.12	21.10	21.61	22.18

END OF REPORT