

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: P1498053

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498053
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
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

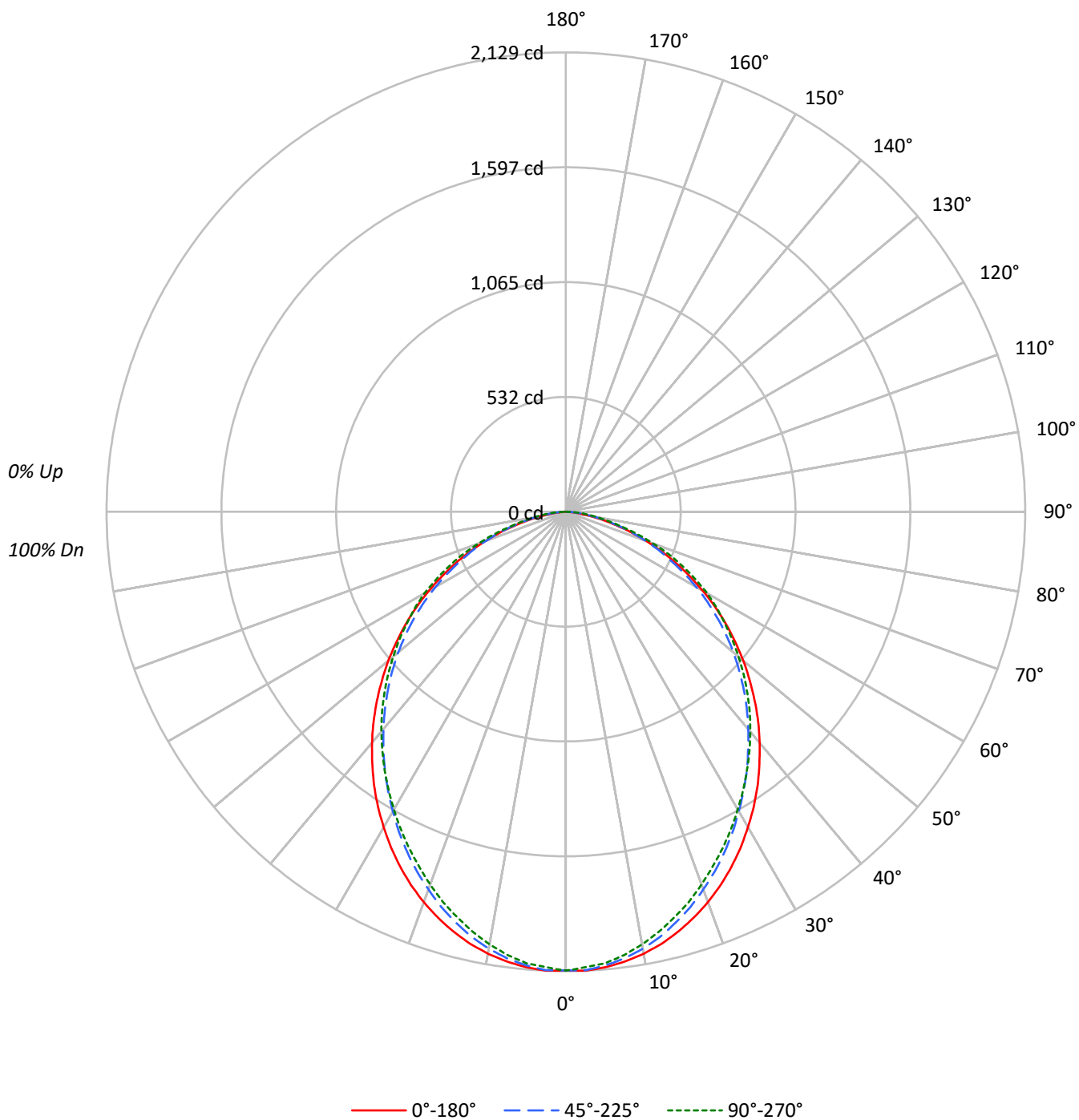
Lumens per Lamp: N/A
Luminaire Lumens: 5079.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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	109	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°	5721	5721	5721
5°	5723	5701	5672
10°	5682	5618	5562
15°	5611	5490	5419
20°	5514	5334	5264
25°	5392	5166	5106
30°	5246	4980	4951
35°	5090	4803	4807
40°	4910	4619	4673
45°	4710	4437	4525
50°	4497	4243	4371
55°	4249	4018	4212
60°	3944	3760	4073
65°	3591	3428	3799
70°	3118	3090	3404
75°	2490	2643	2824
80°	1725	2060	2267
85°	966	1584	2072

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4710 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.5	3.9
10°-20°	555.9	10.9
20°-30°	806.8	15.9
30°-40°	927.8	18.3
40°-50°	917.7	18.1
50°-60°	785.4	15.5
60°-70°	554.6	10.9
70°-80°	271.4	5.3
80°-90°	59.8	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°	1562.2	30.8
0°-40°	2490.1	49.0
0°-60°	4193.2	82.6
0°-90°	5079.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5079.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2126	2126	2126	2126	2126	
5°	2119	2117	2110	2095	2100	201
15°	2014	2002	1971	1943	1945	568
25°	1816	1788	1740	1716	1720	836
35°	1549	1511	1462	1454	1463	968
45°	1238	1202	1166	1177	1189	955
55°	906	873	856	879	898	808
65°	564	538	538	579	597	558
75°	240	229	254	271	272	258
85°	31	38	51	62	67	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2126.1	2126.1	2126.1	2126.1	2126.1
2.5°	2128.6	2130.4	2126.1	2110.0	2112.8
5°	2118.8	2117.0	2110.5	2095.1	2099.9
7.5°	2101.9	2098.9	2087.2	2068.9	2071.9
10°	2079.6	2073.6	2056.0	2033.0	2035.5
12.5°	2050.5	2042.4	2017.5	1991.2	1993.9
15°	2014.2	2002.5	1970.8	1942.9	1945.3
17.5°	1972.6	1959.0	1920.5	1890.1	1895.8
20°	1925.4	1907.1	1862.7	1833.7	1838.3
22.5°	1873.3	1850.4	1803.7	1775.5	1779.0
25°	1816.0	1788.3	1740.0	1715.5	1719.6
27.5°	1754.2	1723.8	1673.9	1651.1	1657.8
30°	1688.3	1655.4	1602.7	1586.1	1593.4
32.5°	1620.5	1585.6	1533.4	1521.8	1528.9
35°	1549.4	1511.2	1462.2	1454.2	1463.4
37.5°	1473.2	1436.4	1388.0	1388.7	1397.2
40°	1397.8	1359.7	1315.0	1319.9	1330.3
42.5°	1319.3	1282.5	1241.4	1249.3	1261.6
45°	1237.7	1202.2	1165.9	1177.4	1189.1
47.5°	1155.6	1120.6	1090.4	1104.4	1118.4
50°	1074.1	1040.4	1013.6	1031.2	1044.2
52.5°	988.4	956.3	936.3	955.1	972.3
55°	905.6	873.0	856.4	879.3	897.7
57.5°	819.9	792.8	778.4	805.9	829.2
60°	732.9	706.3	698.6	734.4	756.8
62.5°	647.8	621.8	617.3	660.1	676.6
65°	564.0	538.5	538.4	578.9	596.6
67.5°	480.9	457.5	466.2	505.7	517.6
70°	396.3	375.4	392.7	426.2	432.6
72.5°	316.7	299.2	323.4	347.7	349.6
75°	239.5	228.6	254.2	270.8	271.6
77.5°	171.5	165.7	189.7	201.7	202.9
80°	111.3	113.8	132.9	142.4	146.3
82.5°	65.0	70.9	85.9	100.5	104.6
85°	31.3	38.4	51.3	62.4	67.1
87.5°	10.8	15.5	21.5	23.8	23.2
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	16.86	18.45	17.23	18.76	19.08	16.98	18.57	17.35	18.88	19.19
	3H	18.32	19.74	18.69	20.07	20.43	18.64	20.07	19.02	20.39	20.75
	4H	18.75	20.09	19.15	20.43	20.81	19.16	20.50	19.56	20.84	21.22
	6H	18.97	20.21	19.38	20.57	20.96	19.47	20.71	19.88	21.07	21.46
	8H	19.00	20.18	19.43	20.57	20.97	19.56	20.74	19.99	21.13	21.53
	12H	19.01	20.14	19.44	20.52	20.95	19.63	20.76	20.06	21.14	21.57
4H	2H	17.37	18.71	17.77	19.06	19.44	17.47	18.81	17.87	19.16	19.53
	3H	19.01	20.13	19.42	20.53	20.93	19.34	20.45	19.75	20.85	21.25
	4H	19.53	20.53	19.96	20.95	21.39	19.97	20.97	20.40	21.39	21.82
	6H	19.83	20.71	20.29	21.15	21.61	20.38	21.26	20.84	21.70	22.16
	8H	19.89	20.71	20.35	21.15	21.62	20.51	21.33	20.97	21.77	22.24
	12H	19.91	20.64	20.39	21.12	21.59	20.62	21.35	21.10	21.82	22.29
8H	4H	19.76	20.57	20.22	21.02	21.48	20.15	20.97	20.61	21.41	21.88
	6H	20.13	20.80	20.62	21.29	21.77	20.65	21.33	21.15	21.82	22.29
	8H	20.22	20.82	20.73	21.33	21.82	20.84	21.44	21.35	21.95	22.44
	12H	20.27	20.81	20.78	21.30	21.86	21.00	21.54	21.51	22.03	22.59
12H	4H	19.77	20.50	20.25	20.98	21.45	20.15	20.88	20.63	21.36	21.83
	6H	20.15	20.76	20.66	21.26	21.75	20.66	21.26	21.17	21.77	22.26
	8H	20.28	20.82	20.79	21.31	21.87	20.89	21.42	21.40	21.91	22.48