

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: P1498059

Luminaire Tested: MAE-G-2-120-1HI-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498059
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-35
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

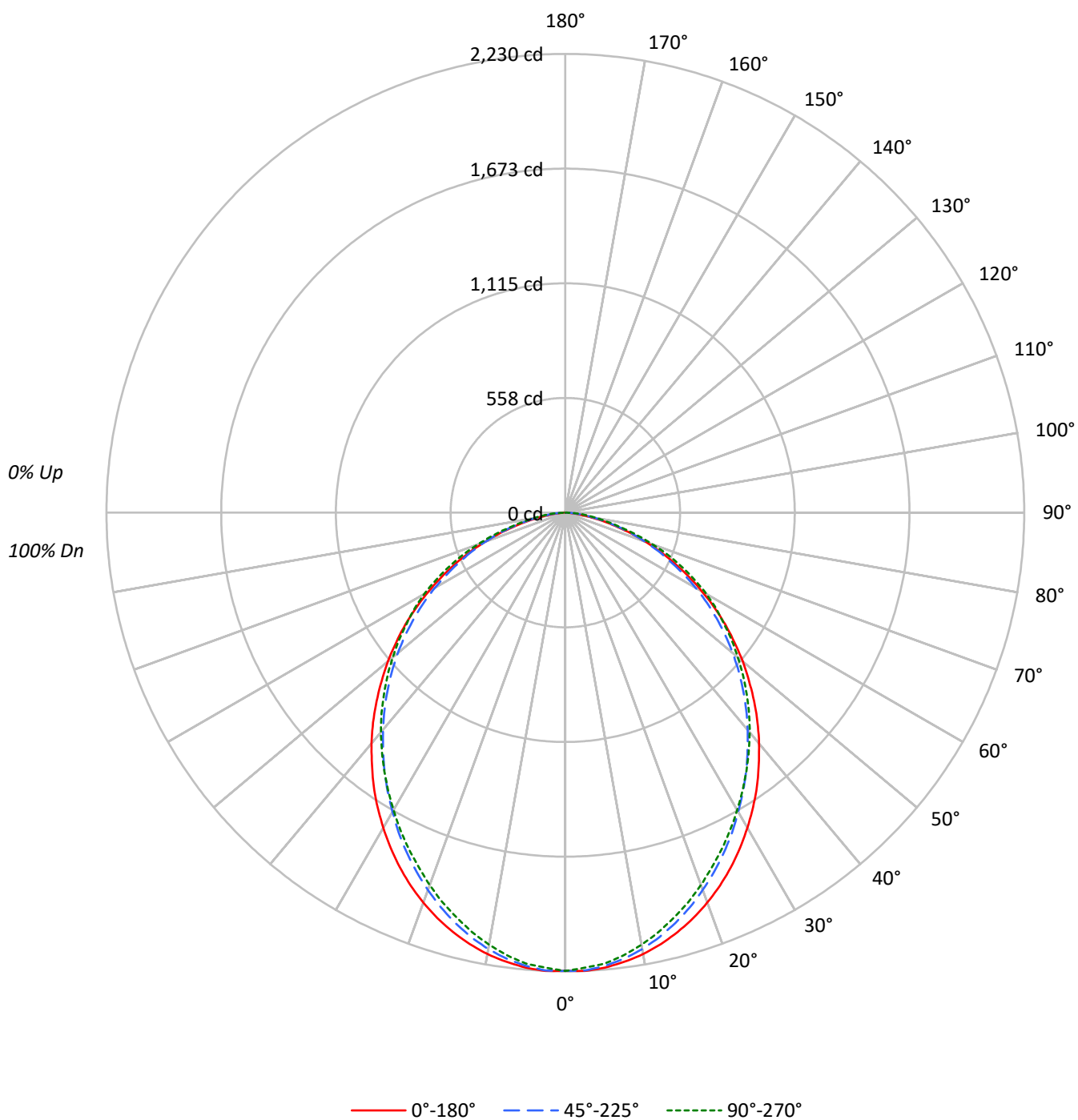
Lumens per Lamp: N/A
Luminaire Lumens: 5322.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5995	5995	5995
5°	5997	5974	5944
10°	5954	5887	5828
15°	5880	5753	5679
20°	5777	5590	5516
25°	5650	5414	5350
30°	5497	5218	5188
35°	5334	5034	5037
40°	5145	4840	4897
45°	4935	4649	4742
50°	4712	4446	4581
55°	4452	4210	4413
60°	4133	3940	4267
65°	3763	3592	3980
70°	3268	3238	3567
75°	2610	2769	2959
80°	1807	2157	2377
85°	1010	1658	2171

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4935 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.1	3.9
10°-20°	582.5	10.9
20°-30°	845.4	15.9
30°-40°	972.2	18.3
40°-50°	961.6	18.1
50°-60°	822.9	15.5
60°-70°	581.2	10.9
70°-80°	284.3	5.3
80°-90°	62.7	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°	1637.0	30.8
0°-40°	2609.2	49.0
0°-60°	4393.8	82.6
0°-90°	5322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2228	2228	2228	2228	2228	
5°	2220	2218	2212	2195	2200	211
15°	2111	2098	2065	2036	2038	595
25°	1903	1874	1823	1798	1802	876
35°	1624	1584	1532	1524	1533	1014
45°	1297	1260	1222	1234	1246	1000
55°	949	915	897	921	941	847
65°	591	564	564	606	625	585
75°	251	240	266	284	285	271
85°	33	40	54	65	70	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2227.8	2227.8	2227.8	2227.8	2227.8
2.5°	2230.3	2232.2	2227.8	2210.9	2214.0
5°	2220.2	2218.4	2211.5	2195.3	2200.3
7.5°	2202.5	2199.4	2187.1	2167.8	2171.0
10°	2179.1	2172.8	2154.4	2130.3	2132.9
12.5°	2148.6	2140.1	2114.0	2086.5	2089.3
15°	2110.6	2098.4	2065.1	2035.8	2038.4
17.5°	2066.9	2052.7	2012.3	1980.6	1986.5
20°	2017.5	1998.3	1951.9	1921.4	1926.3
22.5°	1962.9	1939.1	1890.0	1860.5	1864.0
25°	1902.9	1873.9	1823.3	1797.5	1801.8
27.5°	1838.2	1806.2	1754.0	1730.1	1737.1
30°	1769.1	1734.7	1679.4	1662.0	1669.6
32.5°	1698.2	1661.4	1606.8	1594.6	1602.1
35°	1623.6	1583.6	1532.3	1523.8	1533.4
37.5°	1543.8	1505.2	1454.4	1455.1	1464.0
40°	1464.7	1424.8	1377.9	1383.0	1394.0
42.5°	1382.5	1343.8	1300.8	1309.0	1321.9
45°	1296.8	1259.8	1221.7	1233.8	1246.0
47.5°	1210.8	1174.3	1142.6	1157.2	1171.9
50°	1125.5	1090.1	1062.1	1080.5	1094.2
52.5°	1035.8	1002.1	981.1	1000.7	1018.8
55°	949.0	914.8	897.4	921.4	940.7
57.5°	859.2	830.8	815.5	844.5	868.8
60°	768.0	740.1	732.0	769.5	792.9
62.5°	678.8	651.6	646.9	691.6	708.9
65°	591.0	564.2	564.2	606.5	625.1
67.5°	503.9	479.4	488.6	529.9	542.5
70°	415.3	393.4	411.5	446.6	453.4
72.5°	331.9	313.6	338.8	364.2	366.4
75°	251.0	239.5	266.3	283.8	284.6
77.5°	179.7	173.7	198.8	211.3	212.7
80°	116.6	119.2	139.2	149.3	153.4
82.5°	68.1	74.3	90.1	105.3	109.6
85°	32.7	40.1	53.7	65.4	70.3
87.5°	11.3	16.2	22.5	24.9	24.2
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	17.03	18.61	17.39	18.92	19.24	17.14	18.73	17.51	19.04	19.36
	3H	18.48	19.90	18.86	20.23	20.59	18.80	20.23	19.18	20.56	20.92
	4H	18.91	20.25	19.31	20.60	20.97	19.32	20.66	19.72	21.01	21.38
	6H	19.13	20.37	19.54	20.74	21.13	19.63	20.87	20.04	21.23	21.63
	8H	19.17	20.35	19.59	20.74	21.14	19.72	20.91	20.15	21.29	21.69
	12H	19.17	20.30	19.60	20.68	21.11	19.79	20.92	20.22	21.30	21.73
4H	2H	17.54	18.88	17.94	19.22	19.60	17.63	18.97	18.03	19.32	19.70
	3H	19.18	20.29	19.59	20.69	21.09	19.50	20.61	19.91	21.01	21.41
	4H	19.69	20.70	20.12	21.11	21.55	20.13	21.13	20.56	21.55	21.99
	6H	20.00	20.87	20.45	21.31	21.77	20.55	21.42	21.00	21.86	22.32
	8H	20.05	20.87	20.51	21.31	21.78	20.68	21.49	21.14	21.94	22.40
	12H	20.08	20.81	20.56	21.28	21.75	20.78	21.51	21.26	21.99	22.46
8H	4H	19.92	20.74	20.38	21.18	21.65	20.31	21.13	20.78	21.57	22.04
	6H	20.29	20.97	20.79	21.46	21.93	20.81	21.49	21.31	21.98	22.46
	8H	20.38	20.99	20.89	21.49	21.98	21.00	21.60	21.51	22.11	22.60
	12H	20.43	20.97	20.94	21.46	22.02	21.16	21.70	21.67	22.19	22.75
12H	4H	19.93	20.66	20.41	21.14	21.61	20.31	21.05	20.80	21.52	21.99
	6H	20.31	20.92	20.82	21.43	21.91	20.82	21.43	21.33	21.93	22.42
	8H	20.44	20.98	20.95	21.47	22.03	21.05	21.59	21.56	22.08	22.64