

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: P1498432

Luminaire Tested: MAE-G-2-120-2LO-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2LO-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

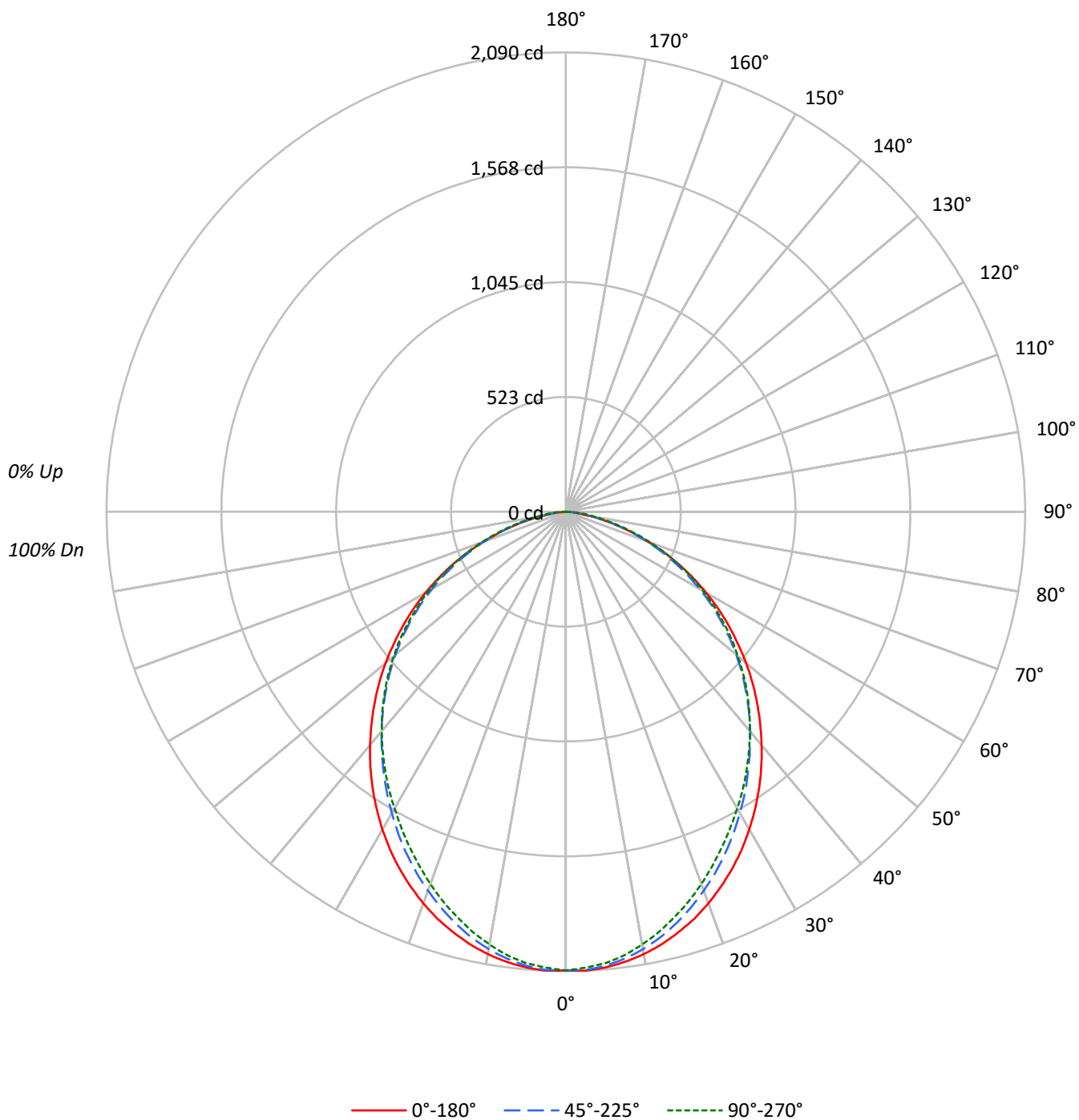
Lumens per Lamp: N/A
Luminaire Lumens: 5012.0 lumens
Efficiency: N/A
Efficacy: 74.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67
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	102	102	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	39	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5614	5614	5614
5°	5622	5601	5569
10°	5584	5523	5463
15°	5517	5401	5318
20°	5430	5253	5161
25°	5319	5094	4995
30°	5187	4921	4844
35°	5038	4747	4710
40°	4867	4581	4577
45°	4683	4414	4439
50°	4481	4237	4276
55°	4248	4031	4093
60°	3969	3783	3883
65°	3619	3471	3601
70°	3136	3087	3222
75°	2512	2599	2720
80°	1723	1954	2132
85°	911	1430	1899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4683 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.9	3.9
10°-20°	546.2	10.9
20°-30°	794.0	15.8
30°-40°	915.6	18.3
40°-50°	908.9	18.1
50°-60°	779.8	15.6
60°-70°	549.2	11.0
70°-80°	266.5	5.3
80°-90°	56.0	1.1
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°	1536.1	30.6
0°-40°	2451.7	48.9
0°-60°	4140.3	82.6
0°-90°	5012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2081	2075	2073	2058	2062	197
15°	1980	1965	1939	1909	1909	558
25°	1791	1763	1716	1683	1682	825
35°	1534	1496	1445	1430	1434	958
45°	1230	1194	1160	1161	1166	949
55°	906	875	859	867	872	809
65°	568	548	545	558	566	562
75°	242	233	250	258	262	260
85°	30	35	46	57	62	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.4	2086.4	2086.4	2086.4	2086.4
2.5°	2090.0	2085.6	2086.4	2074.5	2075.7
5°	2081.3	2075.3	2073.3	2058.1	2061.6
7.5°	2065.4	2057.5	2051.1	2033.1	2035.7
10°	2043.6	2033.0	2021.2	1998.4	1999.4
12.5°	2015.3	2002.3	1983.7	1956.9	1958.1
15°	1980.4	1964.9	1938.8	1909.1	1909.0
17.5°	1941.7	1923.5	1889.1	1856.9	1858.8
20°	1896.3	1875.2	1834.5	1801.2	1802.3
22.5°	1845.6	1821.1	1777.6	1743.8	1742.8
25°	1791.3	1763.2	1715.5	1683.1	1682.3
27.5°	1732.5	1701.2	1650.8	1620.4	1620.7
30°	1669.3	1635.6	1583.8	1557.4	1558.9
32.5°	1602.7	1567.4	1516.0	1494.8	1498.4
35°	1533.5	1495.7	1445.1	1429.6	1433.8
37.5°	1461.2	1423.8	1375.0	1365.0	1369.2
40°	1385.5	1348.7	1304.2	1297.9	1302.9
42.5°	1308.7	1272.7	1232.8	1230.4	1235.9
45°	1230.5	1194.1	1159.9	1160.6	1166.4
47.5°	1151.9	1116.0	1087.2	1090.3	1095.5
50°	1070.4	1036.5	1012.0	1017.2	1021.4
52.5°	986.8	955.1	936.2	943.0	950.3
55°	905.5	874.6	859.2	867.1	872.4
57.5°	821.3	794.5	782.2	790.7	796.8
60°	737.4	712.1	702.9	713.9	721.5
62.5°	652.5	629.2	624.3	636.7	643.9
65°	568.3	547.8	545.1	558.3	565.5
67.5°	484.3	466.1	468.4	484.4	488.8
70°	398.6	383.6	392.3	406.0	409.5
72.5°	318.7	306.1	319.1	330.8	332.9
75°	241.6	233.3	250.0	258.5	261.6
77.5°	171.4	169.1	183.7	192.2	195.9
80°	111.2	114.5	126.1	135.6	137.6
82.5°	63.3	68.3	79.3	92.0	97.0
85°	29.5	34.9	46.3	56.8	61.5
87.5°	10.0	13.8	19.7	21.5	20.5
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	16.93	18.51	17.29	18.82	19.14	16.86	18.45	17.23	18.76	19.08
	3H	18.41	19.83	18.78	20.16	20.52	18.45	19.87	18.83	20.20	20.56
	4H	18.84	20.18	19.24	20.53	20.91	18.95	20.29	19.35	20.64	21.02
	6H	19.06	20.30	19.47	20.67	21.06	19.26	20.50	19.67	20.86	21.25
	8H	19.09	20.28	19.52	20.67	21.06	19.34	20.52	19.77	20.91	21.31
	12H	19.10	20.23	19.53	20.61	21.04	19.40	20.53	19.83	20.91	21.34
4H	2H	17.45	18.79	17.85	19.14	19.51	17.40	18.74	17.80	19.09	19.46
	3H	19.11	20.23	19.52	20.63	21.03	19.18	20.29	19.59	20.69	21.09
	4H	19.64	20.64	20.07	21.06	21.49	19.79	20.79	20.22	21.21	21.65
	6H	19.94	20.81	20.39	21.25	21.71	20.19	21.07	20.65	21.51	21.97
	8H	19.99	20.81	20.45	21.25	21.72	20.31	21.13	20.77	21.57	22.04
	12H	20.01	20.74	20.49	21.22	21.69	20.40	21.13	20.88	21.61	22.08
8H	4H	19.84	20.66	20.31	21.10	21.57	19.98	20.80	20.45	21.24	21.71
	6H	20.21	20.89	20.71	21.38	21.85	20.47	21.14	20.96	21.63	22.11
	8H	20.29	20.90	20.80	21.41	21.89	20.63	21.24	21.14	21.75	22.23
	12H	20.34	20.87	20.85	21.36	21.93	20.78	21.31	21.29	21.81	22.37
12H	4H	19.85	20.58	20.33	21.06	21.53	19.98	20.72	20.47	21.19	21.66
	6H	20.23	20.83	20.74	21.34	21.83	20.47	21.08	20.98	21.58	22.07
	8H	20.35	20.88	20.85	21.37	21.93	20.68	21.21	21.19	21.71	22.27