

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: P1498750

Luminaire Tested: MAE-G-2-120-3LO-LO-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-LO-35-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

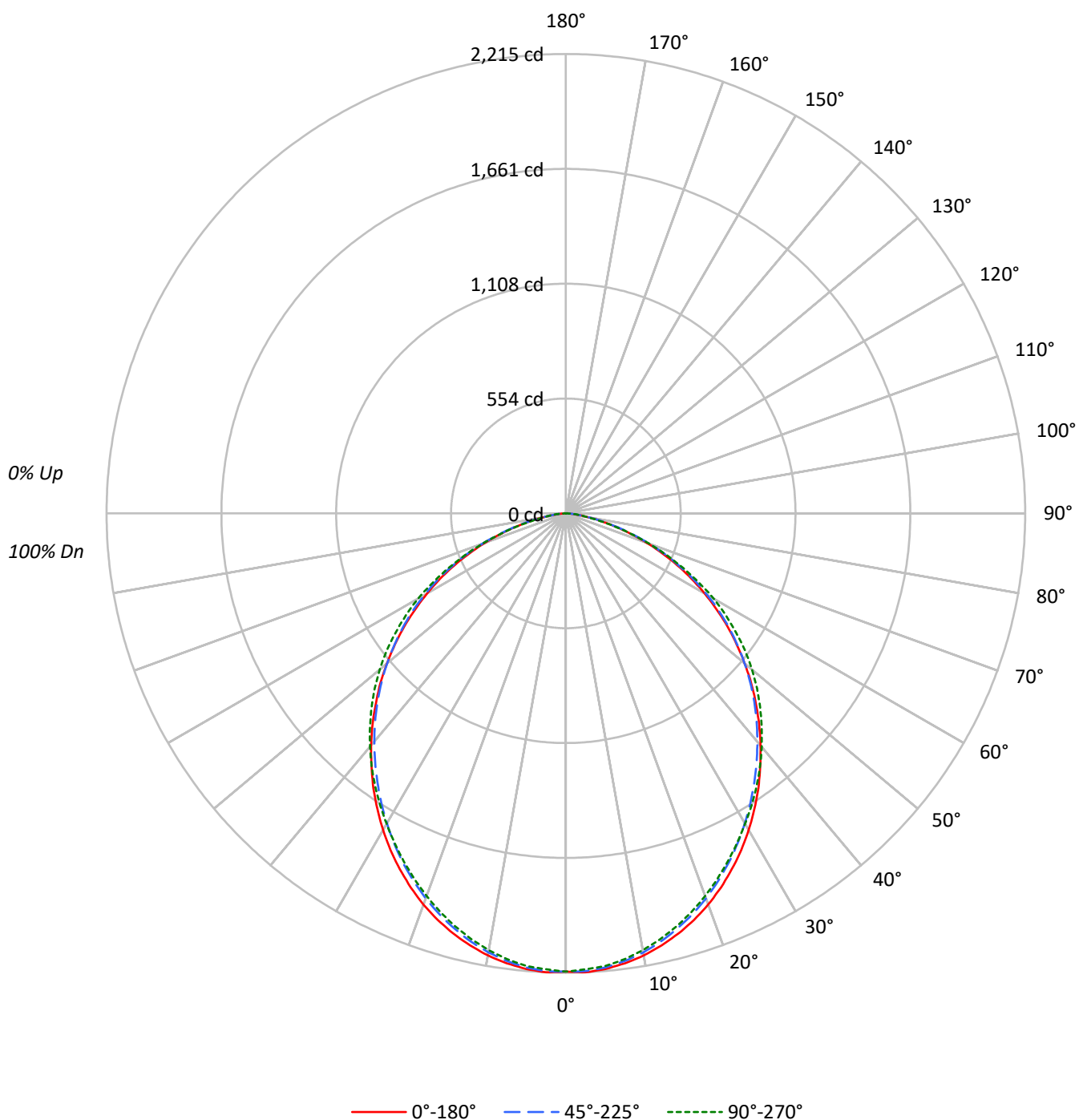
Lumens per Lamp: N/A
Luminaire Lumens: 5430.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5945	5945	5945
5°	5956	5937	5917
10°	5915	5874	5843
15°	5843	5776	5742
20°	5748	5657	5623
25°	5622	5518	5493
30°	5478	5362	5372
35°	5316	5203	5269
40°	5131	5047	5161
45°	4931	4889	5042
50°	4713	4710	4902
55°	4466	4503	4700
60°	4160	4239	4433
65°	3780	3883	3973
70°	3257	3379	3363
75°	2589	2693	2531
80°	1745	1779	1671
85°	898	1127	1377

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5042 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	3.8
10°-20°	584.2	10.8
20°-30°	857.4	15.8
30°-40°	997.7	18.4
40°-50°	999.4	18.4
50°-60°	863.4	15.9
60°-70°	601.2	11.1
70°-80°	271.2	5.0
80°-90°	47.6	0.9
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°	1649.6	30.4
0°-40°	2647.3	48.8
0°-60°	4510.1	83.1
0°-90°	5430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5430.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2209	2209	2209	2209	2209	
5°	2205	2196	2198	2187	2190	209
15°	2098	2084	2073	2058	2061	591
25°	1894	1876	1859	1843	1850	872
35°	1618	1597	1584	1589	1604	1011
45°	1296	1280	1285	1309	1325	1000
55°	952	940	960	991	1002	850
65°	594	591	610	622	624	587
75°	249	250	259	250	243	267
85°	29	31	36	42	45	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2209.4	2209.4	2209.4	2209.4	2209.4
2.5°	2214.9	2206.0	2209.4	2201.3	2199.9
5°	2205.0	2195.7	2197.8	2187.2	2190.3
7.5°	2187.8	2177.9	2177.3	2165.8	2168.4
10°	2164.6	2152.9	2149.7	2136.3	2138.4
12.5°	2133.7	2121.5	2115.1	2099.8	2103.2
15°	2097.5	2083.9	2073.4	2058.1	2061.2
17.5°	2055.4	2040.4	2027.6	2009.9	2015.1
20°	2007.1	1990.8	1975.6	1956.8	1963.5
22.5°	1953.1	1935.8	1918.4	1901.5	1908.0
25°	1893.6	1875.9	1858.6	1843.0	1850.0
27.5°	1830.9	1811.2	1793.7	1782.2	1789.7
30°	1763.1	1742.7	1725.6	1717.9	1728.8
32.5°	1691.6	1671.3	1655.8	1654.6	1667.3
35°	1618.1	1596.6	1583.7	1589.2	1604.0
37.5°	1539.1	1520.8	1511.1	1523.3	1538.3
40°	1460.7	1441.6	1436.8	1453.4	1469.3
42.5°	1379.7	1362.6	1361.6	1383.3	1398.1
45°	1295.7	1279.8	1284.6	1308.8	1324.9
47.5°	1213.2	1197.0	1206.2	1232.8	1250.3
50°	1125.7	1112.1	1125.0	1155.1	1171.0
52.5°	1038.4	1025.5	1043.0	1074.7	1090.2
55°	951.9	940.0	959.9	990.8	1001.8
57.5°	862.1	854.9	875.6	902.8	914.5
60°	773.0	766.5	787.7	813.1	823.7
62.5°	683.5	679.3	699.7	720.5	724.2
65°	593.6	590.6	609.9	621.5	624.0
67.5°	502.7	502.4	520.3	526.7	526.7
70°	413.9	412.7	429.5	431.7	427.4
72.5°	327.7	329.2	340.5	338.7	331.4
75°	249.0	250.5	259.0	250.3	243.4
77.5°	175.7	177.3	181.6	171.9	167.7
80°	112.6	116.0	114.8	110.6	107.8
82.5°	63.0	66.7	65.6	70.9	73.4
85°	29.1	31.4	36.5	42.3	44.6
87.5°	9.9	12.0	15.0	16.1	15.0
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	17.13	18.71	17.49	19.02	19.34	17.51	19.10	17.88	19.41	19.72
	3H	18.57	20.00	18.95	20.33	20.69	18.93	20.36	19.31	20.68	21.04
	4H	18.99	20.33	19.39	20.68	21.06	19.30	20.64	19.70	20.99	21.37
	6H	19.19	20.43	19.61	20.80	21.19	19.46	20.70	19.88	21.07	21.46
	8H	19.22	20.40	19.65	20.79	21.19	19.49	20.67	19.92	21.06	21.46
	12H	19.22	20.35	19.65	20.73	21.16	19.51	20.63	19.94	21.02	21.44
4H	2H	17.71	19.05	18.11	19.39	19.77	18.02	19.36	18.42	19.71	20.08
	3H	19.33	20.44	19.74	20.84	21.24	19.63	20.74	20.04	21.14	21.54
	4H	19.84	20.84	20.27	21.25	21.69	20.08	21.08	20.52	21.50	21.94
	6H	20.11	20.98	20.57	21.42	21.88	20.32	21.18	20.77	21.63	22.08
	8H	20.15	20.97	20.61	21.41	21.87	20.36	21.17	20.82	21.62	22.08
	12H	20.16	20.89	20.65	21.37	21.84	20.39	21.12	20.87	21.60	22.07
8H	4H	20.02	20.83	20.48	21.28	21.74	20.25	21.06	20.71	21.50	21.97
	6H	20.35	21.02	20.84	21.51	21.99	20.53	21.20	21.02	21.69	22.16
	8H	20.41	21.01	20.93	21.52	22.01	20.60	21.20	21.11	21.71	22.19
	12H	20.45	20.98	20.96	21.47	22.03	20.66	21.19	21.17	21.68	22.25
12H	4H	20.02	20.74	20.50	21.22	21.69	20.24	20.97	20.72	21.45	21.92
	6H	20.34	20.94	20.85	21.45	21.94	20.52	21.12	21.03	21.63	22.12
	8H	20.44	20.97	20.95	21.46	22.03	20.62	21.15	21.13	21.65	22.21