

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: P1498600

Luminaire Tested: MAE-G-2-120-3HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498600
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-2-120-3HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

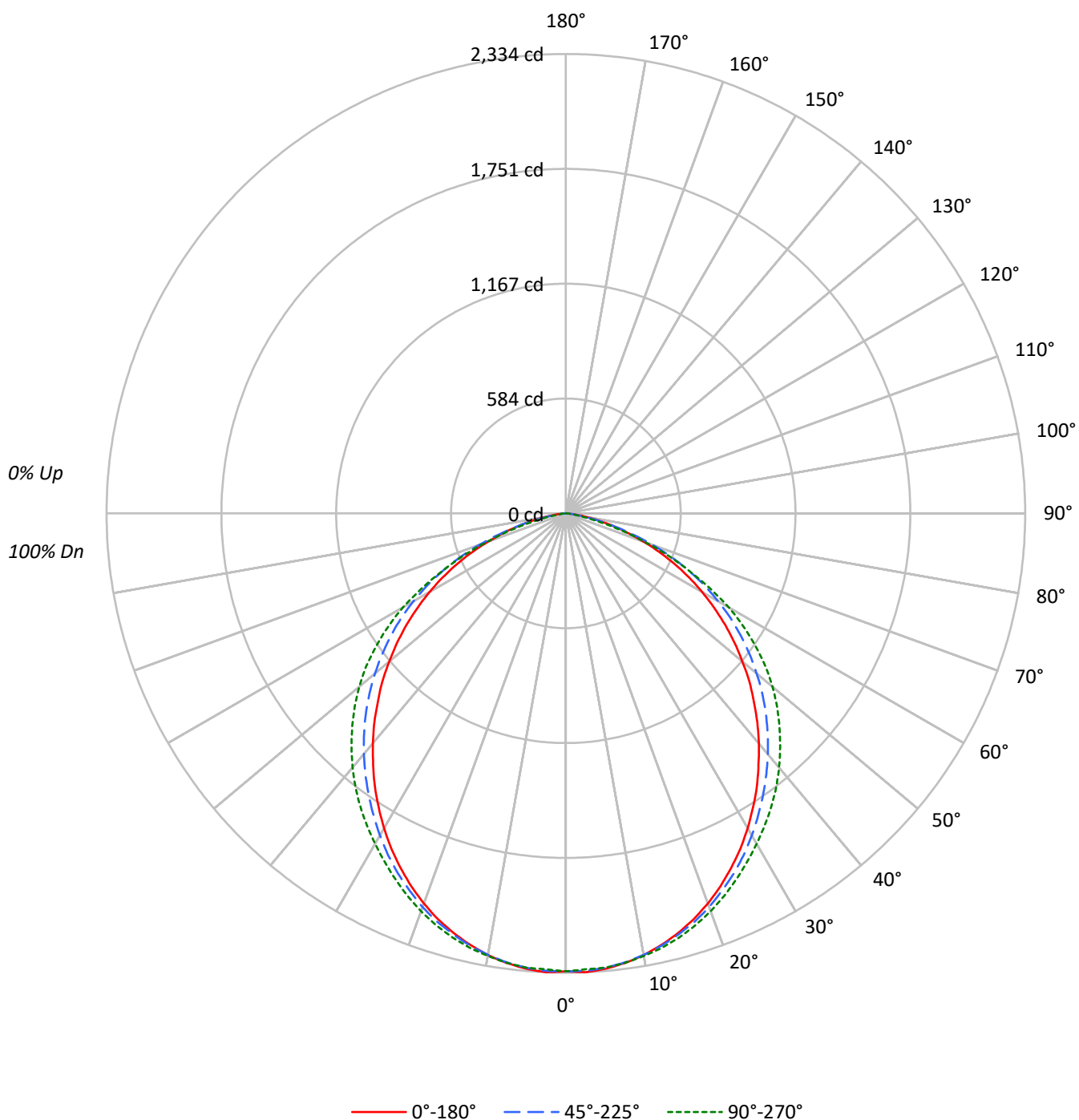
Lumens per Lamp: N/A
Luminaire Lumens: 5896.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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	102	98	107	103	100	96	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	57	69	62	57		67	61	56		65
5	78	65	56	50	76	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	36	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6260	6260	6260
5°	6274	6260	6257
10°	6227	6224	6239
15°	6148	6167	6213
20°	6041	6096	6159
25°	5901	5995	6089
30°	5741	5871	6025
35°	5560	5737	5979
40°	5358	5608	5920
45°	5140	5469	5844
50°	4902	5300	5740
55°	4638	5095	5519
60°	4304	4814	5150
65°	3887	4390	4411
70°	3318	3686	3428
75°	2606	2690	2109
80°	1700	1384	817
85°	815	546	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5844 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.7	3.7
10°-20°	623.8	10.6
20°-30°	927.8	15.7
30°-40°	1093.3	18.5
40°-50°	1108.5	18.8
50°-60°	965.9	16.4
60°-70°	660.6	11.2
70°-80°	265.4	4.5
80°-90°	30.8	0.5
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°	1771.4	30.0
0°-40°	2864.7	48.6
0°-60°	4939.2	83.8
0°-90°	5896.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5896.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2326	2326	2326	2326	2326	
5°	2322	2308	2318	2315	2316	220
15°	2207	2197	2214	2223	2230	622
25°	1987	1988	2019	2034	2051	915
35°	1693	1700	1746	1789	1820	1057
45°	1351	1369	1437	1502	1536	1042
55°	989	1010	1086	1154	1176	883
65°	610	638	690	695	693	604
75°	251	267	259	222	203	269
85°	26	24	18	16	14	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2326.3	2326.3	2326.3	2326.3	2326.3
2.5°	2333.8	2318.2	2326.3	2324.6	2318.7
5°	2322.5	2308.5	2317.6	2315.0	2316.5
7.5°	2304.2	2291.3	2301.0	2300.5	2303.1
10°	2279.0	2266.0	2277.9	2280.0	2283.3
12.5°	2245.6	2234.9	2249.4	2253.6	2260.1
15°	2206.8	2197.2	2213.8	2223.0	2230.0
17.5°	2161.6	2153.5	2175.1	2183.7	2193.4
20°	2109.4	2103.6	2128.8	2136.9	2150.9
22.5°	2051.4	2048.2	2074.5	2086.9	2103.0
25°	1987.4	1987.9	2019.1	2033.7	2050.8
27.5°	1920.2	1921.3	1956.8	1977.1	1995.4
30°	1847.5	1850.8	1889.5	1914.8	1939.0
32.5°	1770.6	1777.1	1819.0	1853.5	1880.4
35°	1692.6	1700.1	1746.5	1789.4	1820.1
37.5°	1608.2	1620.6	1672.8	1723.9	1755.5
40°	1525.4	1537.7	1596.3	1652.8	1685.2
42.5°	1439.9	1455.5	1517.9	1580.8	1611.9
45°	1350.6	1368.8	1437.2	1501.7	1535.6
47.5°	1265.0	1281.2	1353.2	1420.5	1455.5
50°	1170.9	1191.3	1266.1	1336.6	1371.1
52.5°	1081.1	1099.9	1176.8	1249.0	1280.1
55°	988.6	1009.5	1086.0	1154.2	1176.3
57.5°	893.9	919.2	992.9	1050.0	1070.9
60°	799.8	825.0	894.5	941.3	956.9
62.5°	706.2	733.1	793.9	825.0	825.0
65°	610.5	637.9	689.5	694.9	692.7
67.5°	514.8	542.2	581.5	571.7	565.3
70°	421.7	445.3	468.5	450.7	435.7
72.5°	331.3	353.9	357.7	331.9	313.0
75°	250.6	267.4	258.7	222.2	202.8
77.5°	174.8	184.5	166.2	129.1	113.5
80°	109.7	114.0	89.3	62.9	52.7
82.5°	59.2	59.7	38.8	31.7	29.6
85°	26.4	23.7	17.7	15.6	14.0
87.5°	9.2	8.1	6.4	5.9	4.9
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	17.30	18.88	17.66	19.20	19.51	18.28	19.87	18.65	20.18	20.49
	3H	18.71	20.13	19.09	20.46	20.82	19.49	20.91	19.86	21.24	21.60
	4H	19.10	20.44	19.50	20.78	21.16	19.70	21.04	20.10	21.39	21.76
	6H	19.28	20.51	19.69	20.88	21.27	19.72	20.95	20.13	21.32	21.71
	8H	19.29	20.47	19.72	20.86	21.26	19.70	20.87	20.12	21.26	21.66
	12H	19.28	20.41	19.71	20.79	21.22	19.67	20.80	20.10	21.18	21.61
4H	2H	17.97	19.30	18.37	19.65	20.03	18.76	20.09	19.16	20.44	20.82
	3H	19.54	20.64	19.95	21.04	21.44	20.13	21.24	20.54	21.63	22.03
	4H	20.01	21.01	20.45	21.42	21.86	20.40	21.40	20.83	21.81	22.25
	6H	20.25	21.12	20.71	21.56	22.02	20.45	21.32	20.91	21.76	22.22
	8H	20.28	21.08	20.74	21.53	21.99	20.43	21.23	20.89	21.68	22.14
	12H	20.28	21.00	20.76	21.47	21.94	20.41	21.13	20.89	21.60	22.08
8H	4H	20.16	20.96	20.62	21.41	21.87	20.52	21.32	20.98	21.77	22.23
	6H	20.43	21.10	20.93	21.59	22.06	20.58	21.24	21.08	21.73	22.21
	8H	20.48	21.07	20.99	21.58	22.06	20.56	21.15	21.07	21.66	22.15
	12H	20.49	21.01	21.00	21.50	22.07	20.54	21.06	21.05	21.56	22.12
12H	4H	20.14	20.86	20.62	21.34	21.81	20.51	21.23	20.99	21.71	22.18
	6H	20.41	21.00	20.92	21.51	21.99	20.56	21.15	21.07	21.66	22.15
	8H	20.47	20.99	20.98	21.48	22.05	20.56	21.08	21.07	21.57	22.14