

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: P1498108

Luminaire Tested: MAE-G-2-120-1HI-STD-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498108
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-STD-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

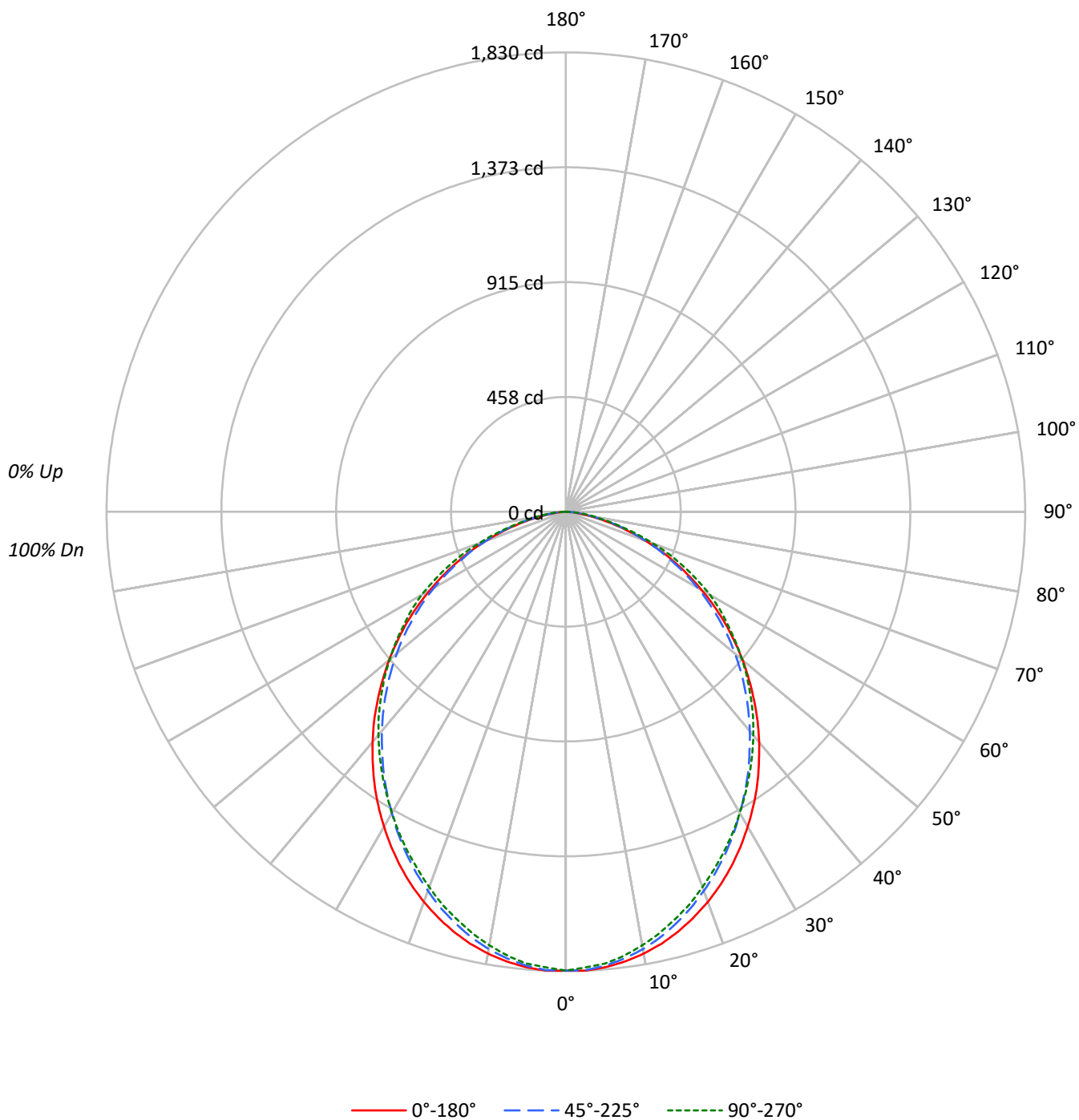
Lumens per Lamp: N/A
Luminaire Lumens: 4386.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	98	90	84	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	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	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	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	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4918	4918	4918
5°	4920	4901	4880
10°	4884	4834	4792
15°	4822	4730	4681
20°	4736	4601	4557
25°	4629	4462	4431
30°	4502	4307	4306
35°	4366	4160	4190
40°	4209	4004	4082
45°	4035	3850	3961
50°	3849	3684	3836
55°	3635	3491	3700
60°	3370	3267	3576
65°	3064	2974	3308
70°	2656	2664	2922
75°	2117	2248	2359
80°	1461	1709	1832
85°	815	1288	1658

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4035 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.6	3.9
10°-20°	478.9	10.9
20°-30°	696.6	15.9
30°-40°	802.7	18.3
40°-50°	795.4	18.1
50°-60°	681.6	15.5
60°-70°	479.7	10.9
70°-80°	230.4	5.3
80°-90°	49.1	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°	1347.1	30.7
0°-40°	2149.8	49.0
0°-60°	3626.8	82.7
0°-90°	4386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1828	1828	1828	1828	1828	
5°	1821	1820	1814	1802	1806	173
15°	1731	1722	1698	1677	1680	488
25°	1559	1538	1503	1487	1492	718
35°	1329	1300	1266	1265	1276	830
45°	1060	1035	1012	1028	1041	818
55°	775	751	744	770	789	692
65°	481	463	467	504	520	476
75°	204	196	216	228	227	220
85°	26	32	42	50	54	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1827.7	1827.7	1827.7	1827.7	1827.7
2.5°	1829.8	1831.2	1827.7	1814.3	1816.4
5°	1821.3	1819.7	1814.5	1802.4	1806.4
7.5°	1806.7	1804.3	1795.0	1780.8	1783.5
10°	1787.3	1782.6	1768.9	1751.3	1753.7
12.5°	1762.2	1756.0	1736.9	1717.1	1719.8
15°	1730.8	1721.8	1697.7	1677.3	1680.1
17.5°	1694.6	1684.6	1655.6	1633.6	1639.4
20°	1653.7	1640.0	1606.8	1586.2	1591.4
22.5°	1608.8	1591.5	1556.9	1537.3	1541.8
25°	1559.1	1538.0	1502.9	1487.0	1492.2
27.5°	1505.7	1482.6	1446.9	1432.5	1440.3
30°	1448.7	1423.9	1386.0	1377.4	1385.7
32.5°	1390.3	1364.1	1326.8	1322.8	1331.1
35°	1328.9	1300.3	1266.2	1265.1	1275.5
37.5°	1263.2	1235.8	1202.3	1209.3	1219.1
40°	1198.3	1169.9	1139.8	1150.6	1162.1
42.5°	1130.7	1103.5	1076.5	1089.8	1103.2
45°	1060.2	1034.7	1011.6	1028.0	1040.9
47.5°	989.6	964.1	946.4	964.9	980.0
50°	919.5	895.3	880.1	901.8	916.2
52.5°	846.1	822.9	813.4	835.8	853.9
55°	774.7	751.1	744.0	770.0	788.7
57.5°	701.1	682.2	676.3	705.8	728.9
60°	626.1	607.4	607.1	643.1	664.5
62.5°	553.2	534.7	536.0	577.0	591.8
65°	481.2	462.8	467.1	503.5	519.5
67.5°	410.3	393.2	403.8	437.9	448.4
70°	337.6	322.5	338.6	366.8	371.4
72.5°	269.8	256.9	277.4	296.3	296.7
75°	203.6	195.9	216.2	227.8	226.9
77.5°	145.7	141.6	159.8	166.9	166.4
80°	94.3	96.5	110.3	115.6	118.2
82.5°	54.9	59.5	70.3	81.3	84.1
85°	26.4	31.9	41.7	50.2	53.7
87.5°	9.2	12.9	17.3	19.2	18.7
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	16.32	17.90	16.69	18.22	18.53	16.58	18.16	16.94	18.47	18.79
	3H	17.76	19.19	18.14	19.52	19.88	18.19	19.62	18.57	19.95	20.31
	4H	18.19	19.53	18.59	19.88	20.25	18.67	20.01	19.07	20.36	20.74
	6H	18.41	19.64	18.82	20.01	20.40	18.95	20.18	19.36	20.55	20.94
	8H	18.44	19.62	18.87	20.01	20.41	19.02	20.20	19.45	20.59	20.99
	12H	18.44	19.57	18.87	19.96	20.38	19.08	20.21	19.51	20.59	21.02
4H	2H	16.84	18.18	17.24	18.53	18.91	17.05	18.39	17.45	18.74	19.12
	3H	18.47	19.59	18.88	19.98	20.39	18.87	19.99	19.28	20.39	20.79
	4H	18.98	19.98	19.41	20.40	20.84	19.46	20.47	19.90	20.88	21.32
	6H	19.28	20.15	19.73	20.59	21.05	19.83	20.71	20.29	21.15	21.61
	8H	19.33	20.15	19.79	20.59	21.06	19.94	20.76	20.41	21.20	21.67
	12H	19.35	20.08	19.83	20.56	21.03	20.03	20.76	20.51	21.24	21.71
8H	4H	19.20	20.02	19.66	20.46	20.93	19.64	20.46	20.10	20.90	21.36
	6H	19.56	20.24	20.06	20.73	21.20	20.09	20.76	20.58	21.25	21.73
	8H	19.65	20.25	20.16	20.76	21.25	20.25	20.85	20.76	21.36	21.85
	12H	19.70	20.23	20.21	20.72	21.29	20.39	20.92	20.90	21.41	21.98
12H	4H	19.21	19.94	19.69	20.42	20.89	19.64	20.37	20.12	20.85	21.32
	6H	19.58	20.19	20.09	20.69	21.18	20.09	20.69	20.60	21.20	21.69
	8H	19.71	20.24	20.21	20.73	21.29	20.29	20.83	20.80	21.32	21.88