

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: P1498117

Luminaire Tested: MAE-G-2-120-1HI-STD-50-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498117
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-50-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

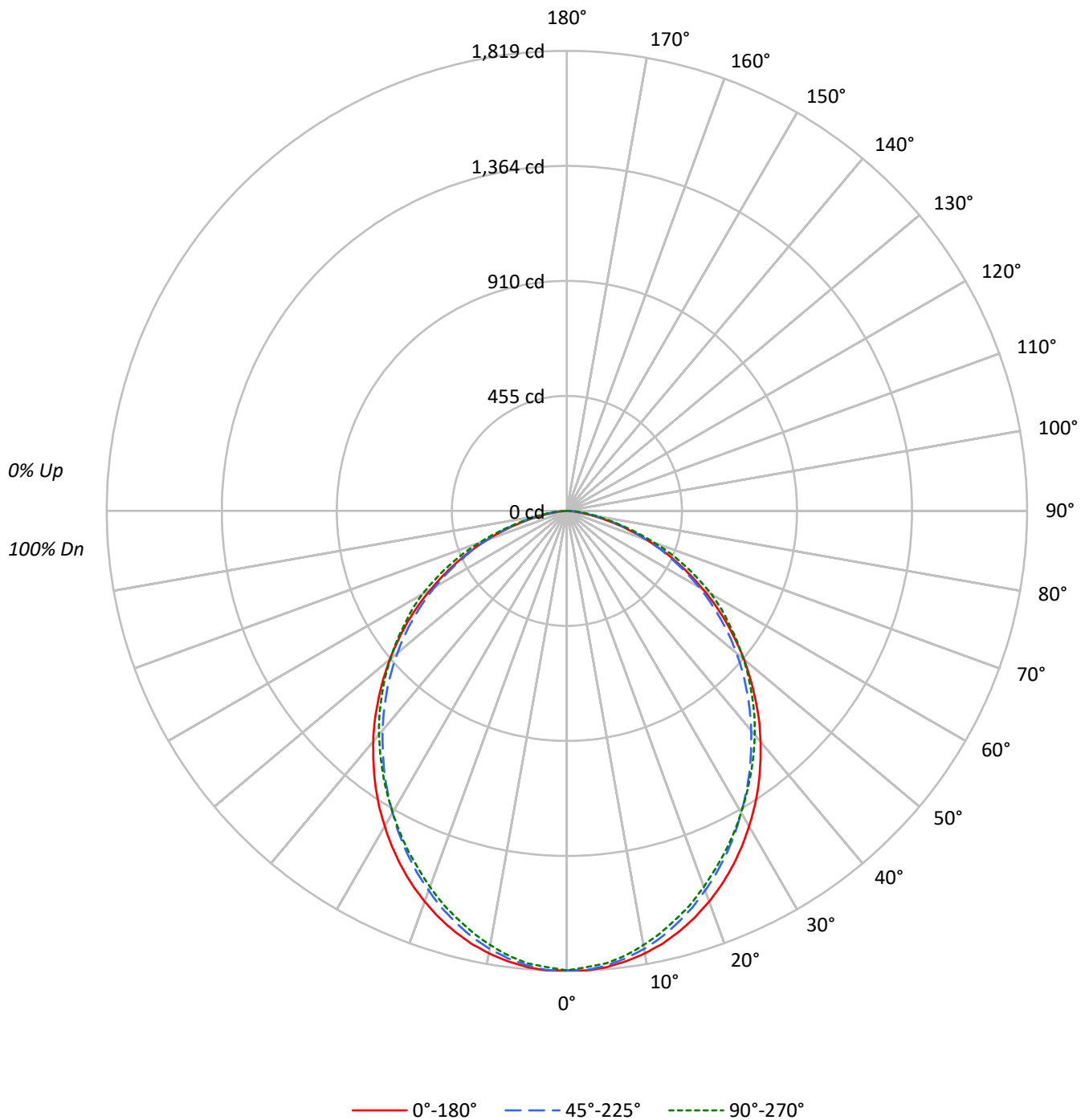
Lumens per Lamp: N/A
Luminaire Lumens: 4360.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	100		
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	98	90	84	79	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4889	4889	4889
5°	4891	4873	4851
10°	4855	4805	4764
15°	4793	4701	4653
20°	4708	4574	4531
25°	4602	4436	4404
30°	4475	4281	4281
35°	4340	4135	4165
40°	4184	3980	4058
45°	4011	3827	3938
50°	3826	3663	3813
55°	3613	3470	3679
60°	3350	3248	3555
65°	3046	2956	3288
70°	2640	2648	2905
75°	2105	2234	2345
80°	1454	1700	1821
85°	812	1281	1649

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4011 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	3.9
10°-20°	476.1	10.9
20°-30°	692.5	15.9
30°-40°	797.9	18.3
40°-50°	790.7	18.1
50°-60°	677.6	15.5
60°-70°	476.9	10.9
70°-80°	229.0	5.3
80°-90°	48.8	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°	1339.2	30.7
0°-40°	2137.1	49.0
0°-60°	3605.3	82.7
0°-90°	4360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1817	1817	1817	1817	1817	
5°	1810	1809	1804	1792	1796	172
15°	1720	1712	1688	1667	1670	485
25°	1550	1529	1494	1478	1483	713
35°	1321	1292	1259	1258	1268	825
45°	1054	1028	1006	1022	1035	813
55°	770	747	740	766	784	687
65°	478	460	464	500	516	473
75°	202	195	215	226	226	219
85°	26	32	42	50	53	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1816.9	1816.9	1816.9	1816.9	1816.9
2.5°	1819.0	1820.4	1816.9	1803.6	1805.6
5°	1810.5	1808.9	1803.8	1791.7	1795.7
7.5°	1795.9	1793.6	1784.4	1770.3	1772.9
10°	1776.6	1771.9	1758.4	1740.9	1743.3
12.5°	1751.7	1745.6	1726.6	1707.0	1709.6
15°	1720.5	1711.6	1687.5	1667.3	1670.2
17.5°	1684.5	1674.6	1645.8	1623.8	1629.6
20°	1643.9	1630.3	1597.3	1576.8	1582.1
22.5°	1599.1	1582.0	1547.6	1528.2	1532.6
25°	1549.9	1529.0	1494.0	1478.2	1483.4
27.5°	1496.7	1473.8	1438.3	1424.1	1431.7
30°	1440.1	1415.5	1377.7	1369.2	1377.6
32.5°	1382.0	1356.0	1318.9	1314.9	1323.3
35°	1321.1	1292.5	1258.6	1257.7	1267.9
37.5°	1255.7	1228.5	1195.3	1202.2	1211.9
40°	1191.2	1163.0	1133.1	1143.7	1155.2
42.5°	1124.0	1097.0	1070.1	1083.4	1096.7
45°	1054.0	1028.4	1005.6	1021.9	1034.8
47.5°	983.7	958.4	940.7	959.3	974.2
50°	914.0	889.9	875.0	896.4	910.9
52.5°	841.1	818.0	808.5	830.9	848.8
55°	770.1	746.6	739.6	765.5	784.1
57.5°	696.9	678.1	672.3	701.7	724.5
60°	622.4	603.9	603.5	639.4	660.6
62.5°	549.9	531.5	532.9	573.6	588.3
65°	478.4	460.1	464.3	500.5	516.4
67.5°	407.8	390.9	401.5	435.3	445.7
70°	335.6	320.6	336.5	364.6	369.2
72.5°	268.1	255.3	275.8	294.5	294.9
75°	202.5	194.7	214.9	226.4	225.5
77.5°	144.8	140.8	158.9	165.9	165.4
80°	93.8	95.8	109.7	114.9	117.5
82.5°	54.6	59.2	69.8	80.9	83.6
85°	26.3	31.8	41.5	50.0	53.4
87.5°	9.1	12.8	17.2	19.1	18.6
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	16.30	17.88	16.67	18.20	18.51	16.56	18.14	16.92	18.45	18.77
	3H	17.74	19.17	18.12	19.49	19.86	18.17	19.60	18.55	19.93	20.29
	4H	18.17	19.51	18.57	19.85	20.23	18.65	19.99	19.05	20.34	20.72
	6H	18.39	19.62	18.80	19.99	20.38	18.93	20.16	19.34	20.53	20.92
	8H	18.42	19.60	18.84	19.99	20.39	19.00	20.18	19.43	20.57	20.97
	12H	18.42	19.55	18.85	19.93	20.36	19.06	20.19	19.49	20.57	21.00
4H	2H	16.82	18.16	17.22	18.51	18.89	17.03	18.37	17.43	18.72	19.09
	3H	18.45	19.57	18.86	19.96	20.36	18.85	19.97	19.26	20.37	20.77
	4H	18.96	19.96	19.39	20.38	20.82	19.44	20.45	19.88	20.86	21.30
	6H	19.26	20.13	19.71	20.57	21.03	19.81	20.69	20.27	21.13	21.59
	8H	19.31	20.13	19.77	20.57	21.04	19.92	20.74	20.39	21.18	21.65
	12H	19.33	20.06	19.81	20.54	21.01	20.01	20.74	20.49	21.22	21.69
8H	4H	19.18	20.00	19.64	20.44	20.91	19.62	20.43	20.08	20.88	21.34
	6H	19.54	20.22	20.04	20.71	21.18	20.06	20.74	20.56	21.23	21.71
	8H	19.63	20.23	20.14	20.74	21.23	20.23	20.83	20.74	21.34	21.82
	12H	19.68	20.21	20.19	20.70	21.27	20.37	20.90	20.88	21.39	21.96
12H	4H	19.19	19.92	19.67	20.40	20.87	19.62	20.35	20.10	20.82	21.29
	6H	19.56	20.17	20.07	20.67	21.16	20.07	20.67	20.58	21.18	21.67
	8H	19.69	20.22	20.19	20.71	21.27	20.27	20.80	20.78	21.30	21.86