

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: P1498891

Luminaire Tested: MAE-G-4-120-1HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498891
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-4-120-1HI-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

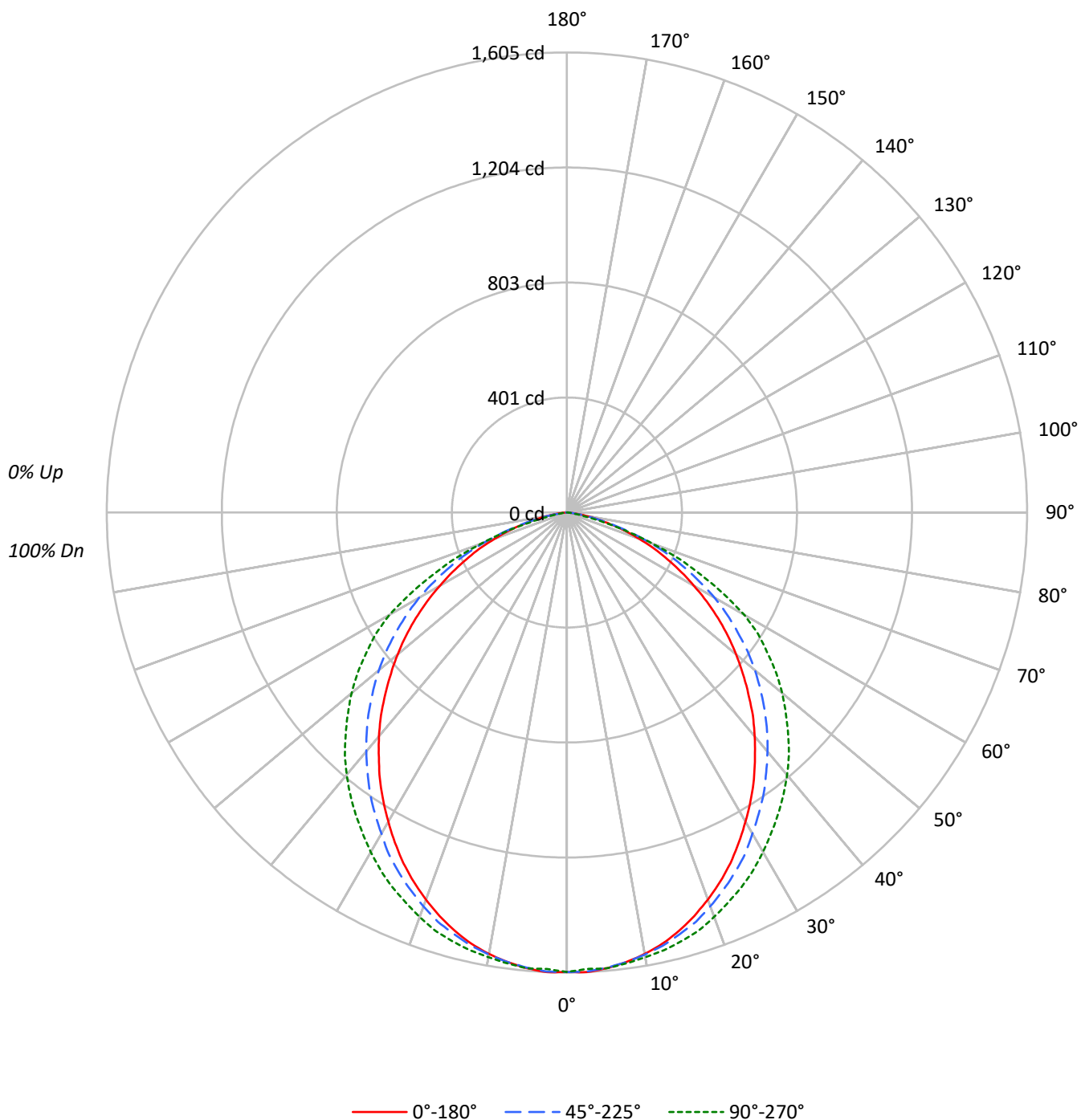
Lumens per Lamp: N/A
Luminaire Lumens: 4036.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.3
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	92	82	74	68	90	80	73	67	77	71	66	75	70	65	72	68	64	62		
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53		
5	78	65	57	50	76	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	55	48	43	53	47	43	41		
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	48	43	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	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2157	2157	2157
5°	2156	2153	2156
10°	2137	2140	2152
15°	2105	2121	2156
20°	2058	2094	2150
25°	2003	2058	2140
30°	1935	2010	2125
35°	1868	1966	2110
40°	1791	1912	2099
45°	1703	1857	2076
50°	1613	1791	2052
55°	1510	1704	2002
60°	1378	1601	1924
65°	1234	1432	1652
70°	1053	1207	1261
75°	816	875	708
80°	536	465	250
85°	286	213	142

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2076 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.4	3.8
10°-20°	430.3	10.7
20°-30°	639.7	15.9
30°-40°	752.1	18.6
40°-50°	759.1	18.8
50°-60°	659.1	16.3
60°-70°	448.6	11.1
70°-80°	174.8	4.3
80°-90°	20.9	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°	1221.3	30.3
0°-40°	1973.5	48.9
0°-60°	3391.7	84.0
0°-90°	4036.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4036.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1603	1603	1603	1603	1603	
5°	1596	1594	1594	1594	1596	151
15°	1511	1513	1522	1538	1548	425
25°	1349	1356	1386	1421	1442	621
35°	1137	1151	1197	1252	1285	710
45°	895	918	976	1052	1091	691
55°	644	664	727	810	854	575
65°	388	406	450	498	519	385
75°	157	166	168	152	136	171
85°	18	18	14	12	9	27
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.1	1603.1	1603.1	1603.1	1603.1
2.5°	1605.4	1605.4	1603.1	1596.2	1593.9
5°	1596.2	1593.9	1593.9	1593.9	1596.2
7.5°	1582.4	1582.4	1582.4	1584.7	1587.0
10°	1563.9	1563.9	1566.2	1570.8	1575.4
12.5°	1540.8	1543.2	1547.8	1557.0	1563.9
15°	1510.9	1513.2	1522.4	1538.5	1547.8
17.5°	1476.3	1483.2	1497.0	1515.5	1529.3
20°	1437.0	1444.0	1462.4	1485.5	1501.6
22.5°	1395.5	1402.5	1425.5	1453.2	1471.6
25°	1349.4	1356.3	1386.3	1420.9	1441.7
27.5°	1298.7	1307.9	1344.8	1381.7	1407.1
30°	1245.6	1257.1	1294.0	1340.2	1367.9
32.5°	1192.5	1206.4	1245.6	1298.7	1326.3
35°	1137.2	1151.0	1197.2	1252.5	1284.8
37.5°	1077.2	1093.4	1141.8	1208.7	1241.0
40°	1019.5	1035.7	1088.7	1160.3	1194.9
42.5°	959.6	978.0	1033.4	1107.2	1146.4
45°	895.0	918.1	975.7	1051.8	1091.1
47.5°	832.7	853.5	915.7	994.2	1035.7
50°	770.4	793.5	855.8	936.5	980.3
52.5°	708.1	728.9	793.5	874.2	920.4
55°	643.6	664.3	726.6	809.6	853.5
57.5°	579.0	604.3	662.0	742.7	791.2
60°	512.1	535.1	595.1	675.9	715.1
62.5°	449.8	470.6	521.3	597.4	615.9
65°	387.5	406.0	449.8	498.2	519.0
67.5°	329.9	343.7	382.9	415.2	424.4
70°	267.6	281.4	306.8	325.2	320.6
72.5°	212.2	221.4	237.6	235.3	223.7
75°	156.9	166.1	168.4	152.2	136.1
77.5°	110.7	115.3	108.4	85.3	69.2
80°	69.2	71.5	60.0	36.9	32.3
82.5°	39.2	39.2	27.7	23.1	18.5
85°	18.5	18.5	13.8	11.5	9.2
87.5°	6.9	6.9	4.6	4.6	4.6
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	13.27	14.85	13.64	15.17	15.48	14.85	16.43	15.22	16.75	17.06
	3H	14.61	16.03	14.99	16.36	16.72	16.12	17.54	16.50	17.87	18.23
	4H	14.98	16.31	15.38	16.66	17.03	16.32	17.65	16.72	18.00	18.37
	6H	15.14	16.37	15.55	16.74	17.13	16.32	17.54	16.73	17.91	18.30
	8H	15.16	16.33	15.58	16.72	17.12	16.29	17.46	16.72	17.85	18.25
	12H	15.15	16.27	15.58	16.65	17.08	16.26	17.38	16.69	17.76	18.19
4H	2H	13.94	15.27	14.34	15.62	15.99	15.23	16.56	15.63	16.91	17.29
	3H	15.44	16.54	15.85	16.94	17.34	16.67	17.77	17.08	18.17	18.57
	4H	15.88	16.87	16.31	17.28	17.72	16.92	17.91	17.35	18.33	18.76
	6H	16.10	16.96	16.56	17.41	17.86	16.95	17.81	17.41	18.25	18.71
	8H	16.13	16.93	16.59	17.37	17.84	16.92	17.72	17.38	18.17	18.63
	12H	16.13	16.85	16.61	17.33	17.80	16.90	17.62	17.38	18.09	18.56
8H	4H	16.04	16.84	16.50	17.28	17.75	17.01	17.81	17.47	18.25	18.72
	6H	16.30	16.96	16.79	17.45	17.92	17.04	17.70	17.53	18.19	18.66
	8H	16.34	16.93	16.85	17.44	17.92	17.01	17.60	17.53	18.11	18.60
	12H	16.36	16.88	16.87	17.37	17.93	17.00	17.52	17.51	18.01	18.57
12H	4H	16.02	16.73	16.50	17.21	17.68	16.99	17.71	17.47	18.18	18.65
	6H	16.27	16.86	16.78	17.37	17.85	17.01	17.60	17.53	18.11	18.60
	8H	16.34	16.86	16.85	17.35	17.91	17.01	17.53	17.52	18.02	18.59

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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