

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: P1498039

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498039
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-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

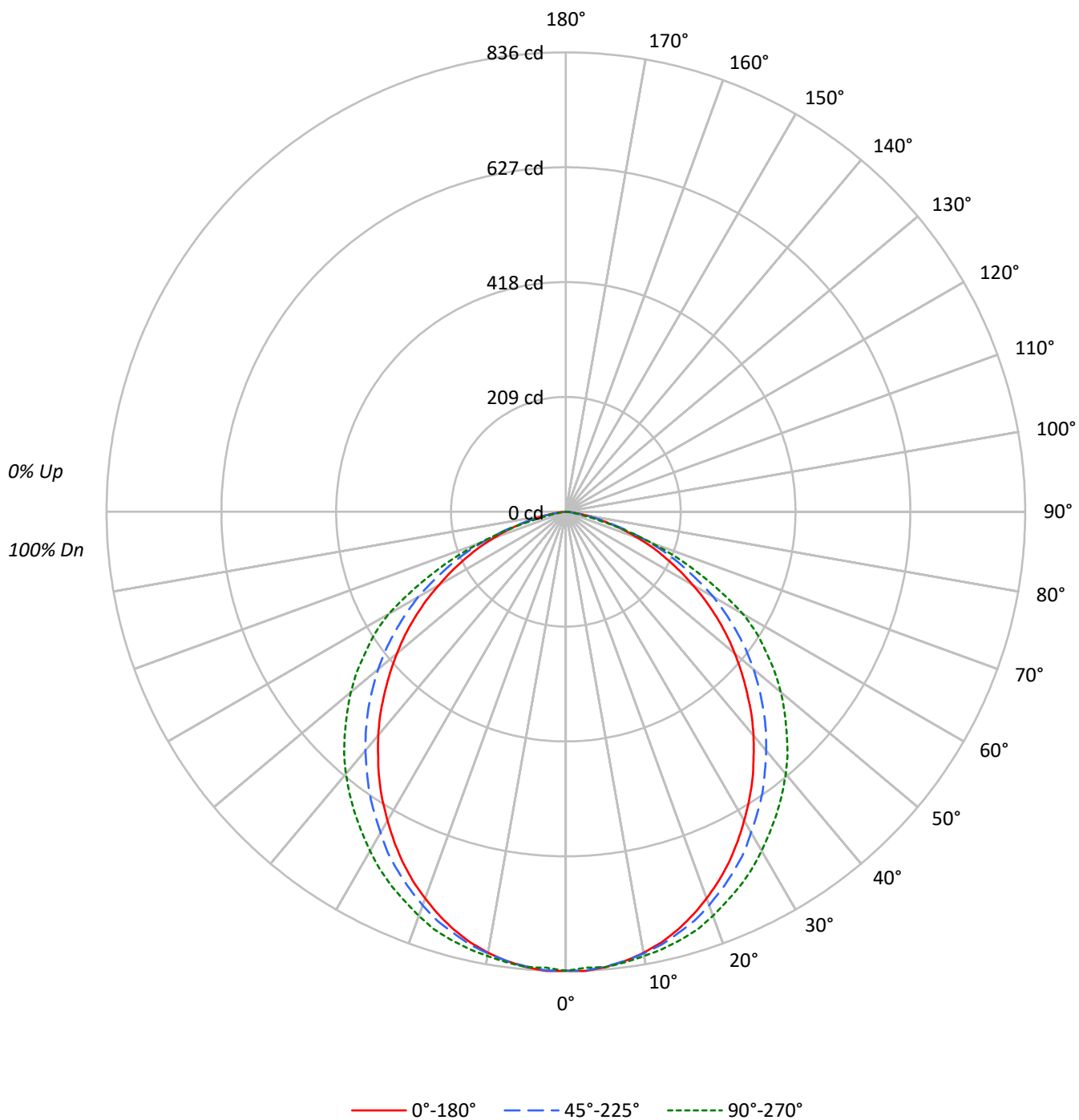
Lumens per Lamp: N/A
Luminaire Lumens: 2103.0 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 22.6
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°	2248	2248	2248
5°	2247	2243	2247
10°	2227	2230	2243
15°	2193	2210	2247
20°	2144	2182	2241
25°	2088	2145	2230
30°	2017	2095	2215
35°	1946	2049	2199
40°	1866	1993	2187
45°	1775	1935	2163
50°	1680	1867	2138
55°	1573	1776	2086
60°	1436	1669	2005
65°	1286	1493	1722
70°	1097	1258	1315
75°	849	912	737
80°	559	483	260
85°	296	222	148

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.9	3.8
10°-20°	224.2	10.7
20°-30°	333.3	15.9
30°-40°	391.9	18.6
40°-50°	395.5	18.8
50°-60°	343.4	16.3
60°-70°	233.8	11.1
70°-80°	91.1	4.3
80°-90°	10.9	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°	636.4	30.3
0°-40°	1028.3	48.9
0°-60°	1767.3	84.0
0°-90°	2103.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2103.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	832	830	830	830	832	79
15°	787	788	793	802	806	222
25°	703	707	722	740	751	323
35°	592	600	624	653	670	370
45°	466	478	508	548	568	360
55°	335	346	379	422	445	299
65°	202	212	234	260	270	201
75°	82	86	88	79	71	89
85°	10	10	7	6	5	14
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.3	835.3	835.3	835.3	835.3
2.5°	836.5	836.5	835.3	831.7	830.5
5°	831.7	830.5	830.5	830.5	831.7
7.5°	824.5	824.5	824.5	825.7	826.9
10°	814.9	814.9	816.1	818.5	820.9
12.5°	802.9	804.1	806.5	811.3	814.9
15°	787.3	788.5	793.3	801.7	806.5
17.5°	769.2	772.8	780.0	789.7	796.9
20°	748.8	752.4	762.0	774.0	782.4
22.5°	727.2	730.8	742.8	757.2	766.8
25°	703.1	706.7	722.3	740.4	751.2
27.5°	676.7	681.5	700.7	719.9	733.2
30°	649.0	655.0	674.3	698.3	712.7
32.5°	621.4	628.6	649.0	676.7	691.1
35°	592.5	599.8	623.8	652.6	669.5
37.5°	561.3	569.7	594.9	629.8	646.6
40°	531.2	539.7	567.3	604.6	622.6
42.5°	500.0	509.6	538.5	576.9	597.3
45°	466.3	478.4	508.4	548.1	568.5
47.5°	433.9	444.7	477.2	518.0	539.7
50°	401.4	413.5	445.9	488.0	510.8
52.5°	369.0	379.8	413.5	455.5	479.6
55°	335.3	346.2	378.6	421.9	444.7
57.5°	301.7	314.9	344.9	387.0	412.3
60°	266.8	278.8	310.1	352.2	372.6
62.5°	234.4	245.2	271.6	311.3	320.9
65°	201.9	211.5	234.4	259.6	270.4
67.5°	171.9	179.1	199.5	216.3	221.2
70°	139.4	146.6	159.9	169.5	167.1
72.5°	110.6	115.4	123.8	122.6	116.6
75°	81.7	86.5	87.7	79.3	70.9
77.5°	57.7	60.1	56.5	44.5	36.1
80°	36.1	37.3	31.2	19.2	16.8
82.5°	20.4	20.4	14.4	12.0	9.6
85°	9.6	9.6	7.2	6.0	4.8
87.5°	3.6	3.6	2.4	2.4	2.4
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	13.42	15.00	13.78	15.31	15.63	15.00	16.58	15.36	16.89	17.21
	3H	14.75	16.17	15.13	16.50	16.86	16.27	17.68	16.64	18.01	18.37
	4H	15.12	16.45	15.52	16.80	17.18	16.46	17.79	16.86	18.14	18.52
	6H	15.29	16.51	15.70	16.88	17.27	16.46	17.69	16.87	18.05	18.44
	8H	15.30	16.47	15.73	16.86	17.26	16.43	17.60	16.86	17.99	18.39
	12H	15.29	16.41	15.72	16.79	17.22	16.41	17.53	16.84	17.91	18.34
4H	2H	14.08	15.41	14.48	15.76	16.14	15.37	16.70	15.77	17.05	17.43
	3H	15.58	16.68	15.99	17.08	17.48	16.81	17.91	17.22	18.31	18.71
	4H	16.02	17.01	16.45	17.43	17.86	17.07	18.05	17.50	18.47	18.91
	6H	16.25	17.11	16.70	17.55	18.01	17.09	17.95	17.55	18.39	18.85
	8H	16.27	17.07	16.74	17.52	17.98	17.07	17.87	17.53	18.31	18.78
	12H	16.28	16.99	16.76	17.47	17.94	17.04	17.76	17.53	18.24	18.71
8H	4H	16.18	16.98	16.64	17.42	17.89	17.15	17.95	17.61	18.39	18.86
	6H	16.44	17.10	16.94	17.59	18.07	17.18	17.84	17.68	18.33	18.81
	8H	16.48	17.07	16.99	17.58	18.07	17.16	17.75	17.67	18.26	18.74
	12H	16.50	17.02	17.01	17.51	18.08	17.14	17.66	17.65	18.15	18.72
12H	4H	16.16	16.88	16.64	17.35	17.83	17.14	17.85	17.62	18.33	18.80
	6H	16.41	17.00	16.92	17.51	18.00	17.16	17.75	17.67	18.26	18.74
	8H	16.48	17.00	16.99	17.49	18.05	17.15	17.67	17.66	18.17	18.73