

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: P1498369

Luminaire Tested: MAE-G-2-120-2HI-LO-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498369
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2HI-LO-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

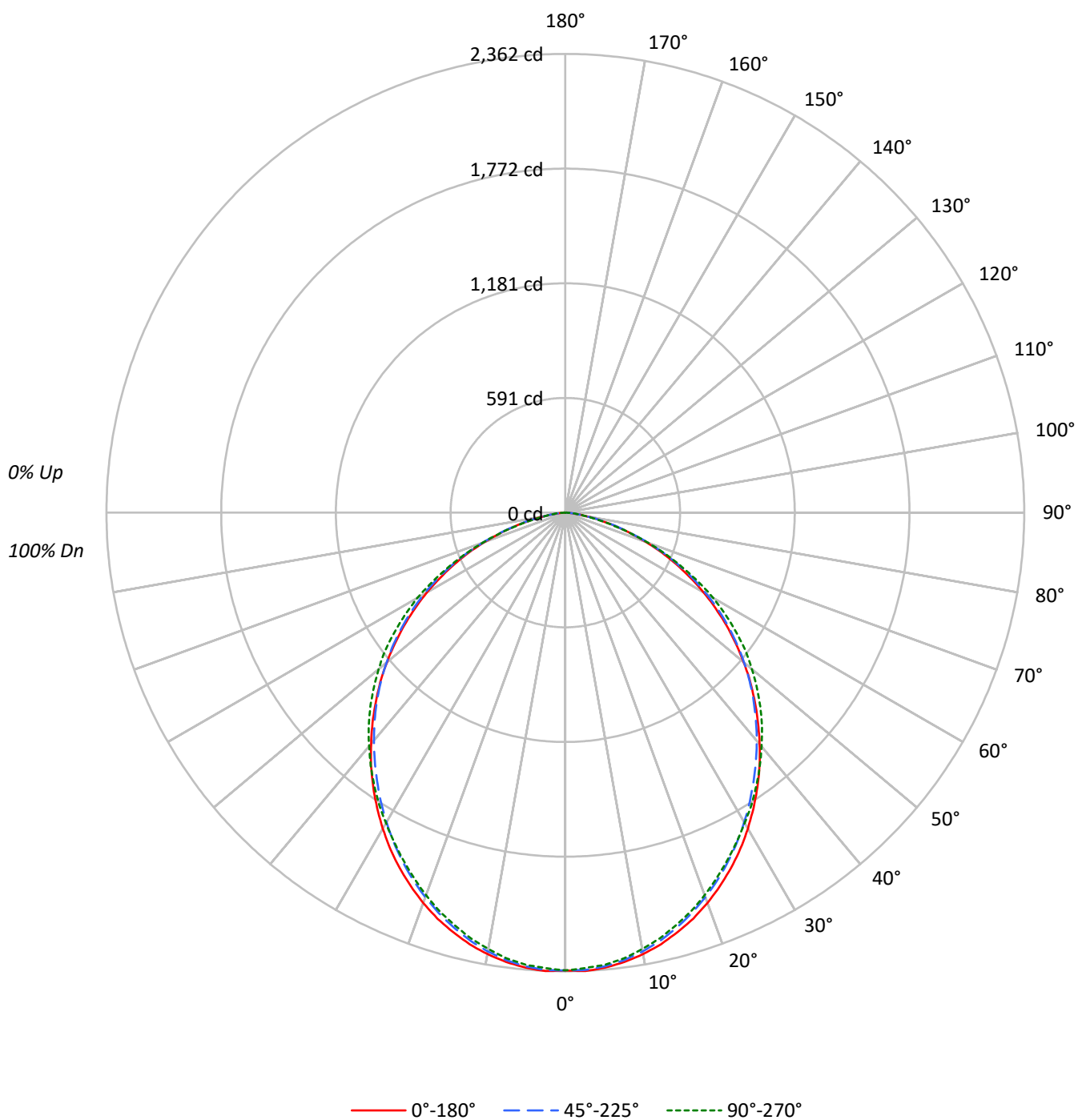
Lumens per Lamp: N/A
Luminaire Lumens: 5788.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	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	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	44	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	29	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6343	6343	6343
5°	6353	6335	6312
10°	6308	6269	6234
15°	6228	6164	6128
20°	6125	6034	6003
25°	5994	5885	5861
30°	5838	5721	5737
35°	5664	5547	5631
40°	5464	5384	5521
45°	5250	5216	5405
50°	5017	5031	5249
55°	4749	4807	5037
60°	4426	4524	4730
65°	4017	4131	4225
70°	3460	3565	3547
75°	2748	2815	2667
80°	1844	1843	1717
85°	929	1136	1392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.9	3.8
10°-20°	623.3	10.8
20°-30°	914.9	15.8
30°-40°	1065.1	18.4
40°-50°	1067.1	18.4
50°-60°	921.6	15.9
60°-70°	639.4	11.0
70°-80°	285.6	4.9
80°-90°	49.0	0.8
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°	1760.2	30.4
0°-40°	2825.3	48.8
0°-60°	4814.1	83.2
0°-90°	5788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2357	2357	2357	2357	2357	
5°	2352	2342	2345	2334	2337	223
15°	2236	2222	2213	2197	2200	630
25°	2019	2001	1982	1969	1974	929
35°	1724	1704	1689	1699	1714	1078
45°	1380	1364	1371	1401	1420	1064
55°	1012	1002	1025	1060	1074	904
65°	631	630	649	658	664	624
75°	264	266	271	260	256	284
85°	30	32	37	43	45	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2357.2	2357.2	2357.2	2357.2	2357.2
2.5°	2362.5	2352.9	2357.2	2349.0	2347.0
5°	2351.9	2342.2	2345.1	2334.0	2336.6
7.5°	2333.7	2323.2	2323.6	2311.8	2314.5
10°	2308.4	2296.0	2294.1	2279.9	2281.6
12.5°	2276.0	2262.9	2257.7	2241.9	2245.1
15°	2235.7	2221.6	2212.6	2197.2	2199.6
17.5°	2191.4	2177.1	2162.8	2146.8	2151.9
20°	2138.7	2123.9	2107.1	2090.3	2096.3
22.5°	2080.7	2064.3	2047.5	2031.5	2036.0
25°	2018.8	2001.3	1982.0	1968.7	1974.1
27.5°	1951.4	1932.1	1913.5	1902.9	1910.4
30°	1878.9	1859.2	1841.2	1836.3	1846.2
32.5°	1802.7	1783.3	1766.6	1769.4	1783.3
35°	1724.1	1703.5	1688.6	1698.9	1714.1
37.5°	1642.5	1622.4	1611.5	1628.8	1644.8
40°	1555.4	1537.8	1532.8	1555.0	1571.7
42.5°	1468.4	1452.0	1452.8	1479.8	1498.0
45°	1379.5	1363.6	1370.7	1400.9	1420.2
47.5°	1291.7	1275.1	1287.7	1320.7	1338.1
50°	1198.3	1185.0	1201.7	1236.2	1253.8
52.5°	1105.2	1093.0	1114.0	1150.1	1170.2
55°	1012.2	1001.9	1024.6	1059.6	1073.6
57.5°	917.0	910.8	934.3	964.4	977.7
60°	822.4	817.1	840.5	867.0	878.8
62.5°	726.7	723.1	745.7	765.6	771.5
65°	630.9	630.3	648.8	657.6	663.6
67.5°	537.3	536.0	552.2	558.2	559.0
70°	439.7	441.6	453.1	453.5	450.8
72.5°	350.7	351.1	358.4	353.5	349.0
75°	264.3	265.6	270.7	260.4	256.5
77.5°	185.6	189.7	188.0	178.7	175.1
80°	119.0	123.6	118.9	113.7	110.8
82.5°	66.2	69.0	67.0	72.2	74.5
85°	30.1	32.3	36.8	42.9	45.1
87.5°	10.2	12.3	15.3	16.2	15.2
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	17.34	18.93	17.71	19.24	19.55	17.75	19.33	18.12	19.65	19.96
	3H	18.80	20.22	19.17	20.55	20.91	19.14	20.57	19.52	20.89	21.26
	4H	19.21	20.55	19.61	20.90	21.28	19.51	20.84	19.90	21.19	21.57
	6H	19.41	20.65	19.83	21.01	21.41	19.66	20.89	20.07	21.26	21.65
	8H	19.44	20.61	19.86	21.00	21.40	19.68	20.86	20.11	21.25	21.65
	12H	19.43	20.56	19.86	20.94	21.37	19.69	20.82	20.12	21.20	21.63
4H	2H	17.93	19.26	18.32	19.61	19.99	18.26	19.59	18.65	19.94	20.32
	3H	19.55	20.66	19.96	21.06	21.46	19.83	20.94	20.24	21.34	21.74
	4H	20.05	21.05	20.49	21.47	21.90	20.27	21.27	20.70	21.69	22.12
	6H	20.33	21.20	20.78	21.64	22.10	20.49	21.36	20.95	21.80	22.26
	8H	20.37	21.18	20.83	21.62	22.09	20.53	21.34	20.99	21.78	22.25
	12H	20.38	21.10	20.86	21.58	22.05	20.56	21.28	21.04	21.76	22.23
8H	4H	20.23	21.04	20.69	21.48	21.95	20.43	21.24	20.89	21.68	22.15
	6H	20.55	21.22	21.05	21.71	22.19	20.69	21.36	21.19	21.85	22.33
	8H	20.62	21.22	21.13	21.72	22.21	20.76	21.36	21.27	21.86	22.35
	12H	20.65	21.17	21.15	21.67	22.23	20.81	21.34	21.32	21.83	22.40
12H	4H	20.22	20.95	20.70	21.43	21.90	20.42	21.15	20.91	21.63	22.10
	6H	20.55	21.15	21.06	21.65	22.14	20.68	21.28	21.20	21.79	22.28
	8H	20.64	21.17	21.15	21.66	22.22	20.78	21.31	21.29	21.80	22.36