

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: P1498357

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498357
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-HI-50-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

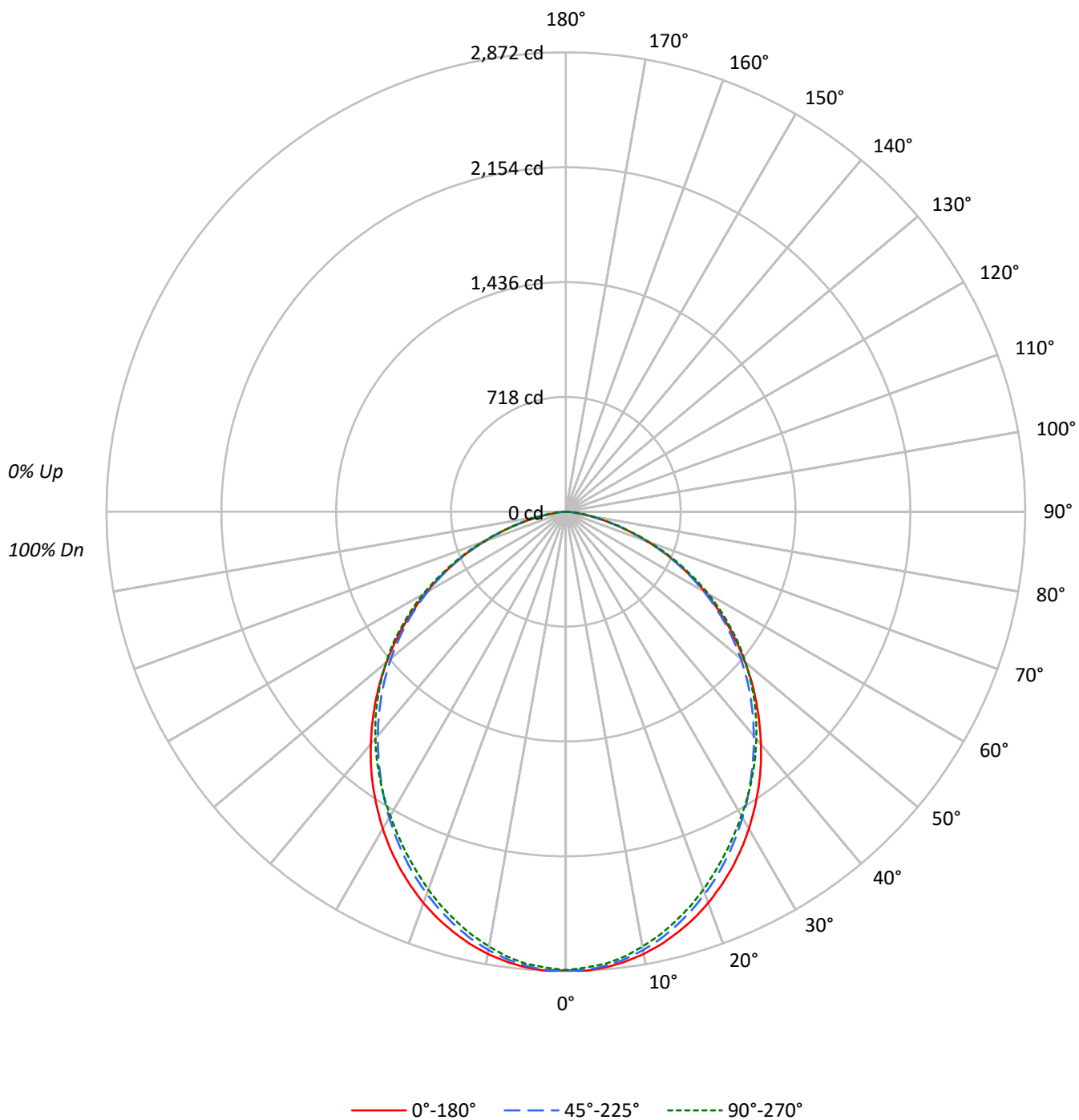
Lumens per Lamp: N/A
Luminaire Lumens: 6964.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.7
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	81	98	90	85	80	87	82	78		84	80	76		81
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7712	7712	7712
5°	7723	7698	7662
10°	7670	7605	7544
15°	7576	7459	7380
20°	7453	7279	7199
25°	7297	7079	6999
30°	7111	6862	6820
35°	6903	6637	6665
40°	6664	6425	6508
45°	6407	6208	6344
50°	6127	5974	6137
55°	5803	5697	5883
60°	5415	5354	5550
65°	4926	4900	5046
70°	4255	4289	4367
75°	3394	3493	3480
80°	2303	2455	2493
85°	1186	1661	2137

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6407 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.5	3.9
10°-20°	754.2	10.8
20°-30°	1102.0	15.8
30°-40°	1277.1	18.3
40°-50°	1273.9	18.3
50°-60°	1096.8	15.7
60°-70°	766.3	11.0
70°-80°	356.4	5.1
80°-90°	67.9	1.0
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°	2125.7	30.5
0°-40°	3402.7	48.9
0°-60°	5773.4	82.9
0°-90°	6964.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6964.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2866	2866	2866	2866	2866	
5°	2859	2849	2850	2833	2837	271
15°	2719	2700	2677	2648	2649	767
25°	2458	2428	2384	2354	2357	1131
35°	2101	2063	2020	2016	2029	1313
45°	1684	1649	1631	1651	1667	1299
55°	1237	1210	1214	1242	1254	1105
65°	774	760	770	784	792	765
75°	326	322	336	335	335	351
85°	38	44	54	65	69	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2866.0	2866.0	2866.0	2866.0	2866.0
2.5°	2871.8	2862.8	2866.0	2853.0	2852.5
5°	2859.2	2849.2	2849.8	2832.8	2836.6
7.5°	2837.3	2825.5	2821.5	2802.1	2805.6
10°	2806.9	2792.2	2783.0	2759.1	2760.8
12.5°	2767.9	2751.0	2735.4	2707.7	2710.6
15°	2719.3	2700.2	2677.3	2647.8	2649.2
17.5°	2665.8	2644.8	2612.9	2581.6	2586.0
20°	2602.6	2579.2	2541.7	2509.2	2513.8
22.5°	2532.4	2505.8	2466.5	2434.1	2436.2
25°	2457.5	2428.0	2384.1	2354.4	2357.2
27.5°	2376.1	2343.2	2298.2	2271.4	2276.4
30°	2288.6	2254.0	2208.4	2187.7	2195.0
32.5°	2196.6	2160.9	2116.4	2104.2	2115.3
35°	2101.3	2063.2	2020.4	2016.5	2028.9
37.5°	2002.0	1964.5	1925.5	1929.7	1942.5
40°	1897.0	1861.5	1828.9	1838.8	1852.7
42.5°	1791.4	1757.1	1731.2	1746.8	1761.9
45°	1683.5	1649.4	1631.3	1650.8	1666.9
47.5°	1576.2	1542.0	1530.9	1553.8	1568.2
50°	1463.5	1432.6	1426.9	1452.1	1466.0
52.5°	1349.5	1320.8	1321.5	1348.8	1366.3
55°	1237.0	1210.1	1214.3	1241.5	1253.9
57.5°	1121.3	1099.6	1106.4	1131.0	1143.4
60°	1006.2	986.1	994.8	1018.8	1031.2
62.5°	889.8	872.0	883.0	903.8	912.3
65°	773.6	759.7	769.6	783.8	792.4
67.5°	659.1	646.2	658.0	672.2	675.7
70°	540.8	532.2	545.1	554.4	555.1
72.5°	432.0	423.8	437.0	441.7	440.2
75°	326.4	321.8	336.0	335.1	334.7
77.5°	230.5	231.5	240.1	239.8	239.9
80°	148.6	153.6	158.4	161.4	160.9
82.5°	83.6	88.7	94.6	106.5	111.1
85°	38.4	43.5	53.8	64.6	69.2
87.5°	13.0	16.9	22.7	24.4	23.2
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	18.02	19.61	18.39	19.92	20.24	18.21	19.80	18.58	20.11	20.42
	3H	19.49	20.92	19.87	21.24	21.60	19.69	21.12	20.07	21.44	21.81
	4H	19.92	21.26	20.32	21.60	21.98	20.12	21.46	20.52	21.81	22.18
	6H	20.13	21.36	20.54	21.73	22.12	20.34	21.58	20.75	21.94	22.33
	8H	20.16	21.33	20.58	21.72	22.12	20.39	21.57	20.82	21.96	22.36
	12H	20.15	21.28	20.58	21.66	22.09	20.42	21.55	20.85	21.93	22.36
4H	2H	18.58	19.92	18.98	20.26	20.64	18.73	20.07	19.13	20.42	20.79
	3H	20.22	21.34	20.63	21.73	22.14	20.40	21.51	20.81	21.91	22.31
	4H	20.74	21.74	21.17	22.15	22.59	20.92	21.92	21.35	22.34	22.77
	6H	21.02	21.89	21.48	22.34	22.79	21.22	22.09	21.68	22.53	22.99
	8H	21.07	21.88	21.53	22.32	22.79	21.30	22.11	21.76	22.55	23.02
	12H	21.08	21.81	21.56	22.29	22.76	21.35	22.08	21.83	22.56	23.03
8H	4H	20.93	21.74	21.39	22.18	22.65	21.09	21.91	21.56	22.35	22.82
	6H	21.27	21.94	21.77	22.43	22.91	21.46	22.13	21.95	22.62	23.09
	8H	21.34	21.94	21.85	22.45	22.94	21.57	22.17	22.08	22.68	23.16
	12H	21.38	21.91	21.89	22.40	22.97	21.67	22.20	22.17	22.69	23.25
12H	4H	20.93	21.66	21.41	22.13	22.60	21.09	21.82	21.57	22.30	22.77
	6H	21.27	21.88	21.79	22.38	22.87	21.45	22.06	21.97	22.57	23.05
	8H	21.38	21.91	21.89	22.40	22.97	21.60	22.13	22.11	22.63	23.19