

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: P1498375

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498375
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-40-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

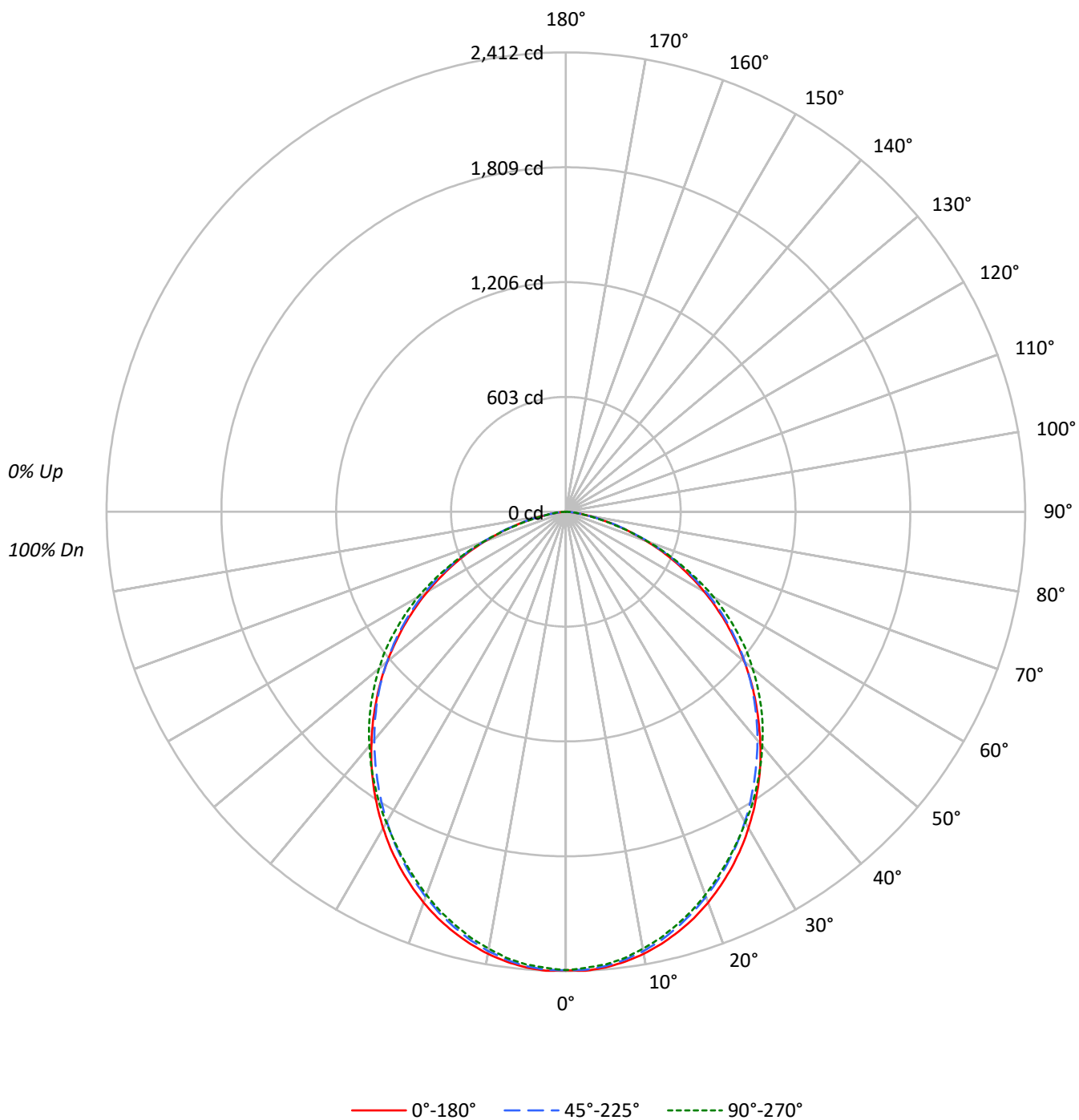
Lumens per Lamp: N/A
Luminaire Lumens: 5910.0 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	93	90		91
2	100	92	86	81	98	91	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	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6477	6477	6477
5°	6487	6468	6445
10°	6440	6401	6366
15°	6360	6294	6257
20°	6254	6161	6130
25°	6120	6009	5985
30°	5962	5842	5858
35°	5783	5664	5750
40°	5579	5498	5638
45°	5361	5326	5519
50°	5123	5137	5359
55°	4849	4908	5143
60°	4520	4619	4830
65°	4102	4218	4315
70°	3533	3640	3622
75°	2805	2874	2723
80°	1883	1881	1754
85°	945	1161	1423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5519 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.6	3.8
10°-20°	636.5	10.8
20°-30°	934.2	15.8
30°-40°	1087.6	18.4
40°-50°	1089.6	18.4
50°-60°	941.0	15.9
60°-70°	652.9	11.0
70°-80°	291.6	4.9
80°-90°	50.0	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°	1797.3	30.4
0°-40°	2884.9	48.8
0°-60°	4915.5	83.2
0°-90°	5910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5910.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2407	2407	2407	2407	2407	
5°	2401	2392	2395	2383	2386	228
15°	2283	2268	2259	2243	2246	643
25°	2061	2044	2024	2010	2016	949
35°	1760	1739	1724	1735	1750	1100
45°	1409	1392	1400	1430	1450	1087
55°	1034	1023	1046	1082	1096	923
65°	644	644	662	672	678	638
75°	270	271	276	266	262	290
85°	31	33	38	44	46	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2406.9	2406.9	2406.9	2406.9	2406.9
2.5°	2412.2	2402.6	2406.9	2398.5	2396.5
5°	2401.4	2391.5	2394.6	2383.2	2385.8
7.5°	2382.9	2372.1	2372.6	2360.5	2363.3
10°	2357.0	2344.5	2342.4	2327.9	2329.7
12.5°	2323.9	2310.6	2305.3	2289.2	2292.5
15°	2282.8	2268.4	2259.2	2243.4	2245.8
17.5°	2237.6	2223.0	2208.3	2192.0	2197.2
20°	2183.8	2168.7	2151.4	2134.4	2140.5
22.5°	2124.5	2107.8	2090.6	2074.3	2079.0
25°	2061.3	2043.5	2023.8	2010.2	2015.7
27.5°	1992.5	1972.8	1953.9	1943.0	1950.7
30°	1918.6	1898.4	1880.0	1875.0	1885.1
32.5°	1840.7	1820.9	1803.8	1806.7	1820.9
35°	1760.5	1739.3	1724.2	1734.7	1750.2
37.5°	1677.0	1656.6	1645.4	1663.2	1679.5
40°	1588.3	1570.3	1565.2	1587.7	1604.9
42.5°	1499.4	1482.6	1483.4	1511.1	1529.6
45°	1408.6	1392.3	1399.6	1430.3	1450.1
47.5°	1318.9	1301.9	1314.8	1348.6	1366.2
50°	1223.6	1210.0	1227.1	1262.2	1280.2
52.5°	1128.4	1116.0	1137.5	1174.3	1194.8
55°	1033.5	1023.0	1046.2	1081.9	1096.3
57.5°	936.4	929.9	954.0	984.7	998.3
60°	839.8	834.3	858.2	885.3	897.4
62.5°	742.1	738.3	761.5	781.7	787.8
65°	644.2	643.7	662.5	671.5	677.6
67.5°	548.6	547.3	563.8	569.9	570.7
70°	449.0	451.0	462.7	463.1	460.3
72.5°	358.2	358.4	365.9	361.0	356.3
75°	269.8	271.2	276.4	265.9	261.9
77.5°	189.6	193.8	191.9	182.4	178.8
80°	121.5	126.2	121.4	116.1	113.2
82.5°	67.6	70.5	68.3	73.8	76.0
85°	30.6	33.1	37.6	43.8	46.1
87.5°	10.4	12.5	15.6	16.5	15.5
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	17.42	19.00	17.78	19.31	19.63	17.82	19.41	18.19	19.72	20.03
	3H	18.87	20.29	19.25	20.62	20.98	19.22	20.64	19.59	20.97	21.33
	4H	19.29	20.62	19.69	20.97	21.35	19.58	20.91	19.98	21.26	21.64
	6H	19.49	20.72	19.90	21.09	21.48	19.73	20.96	20.14	21.33	21.72
	8H	19.51	20.69	19.94	21.08	21.48	19.75	20.93	20.18	21.32	21.72
	12H	19.51	20.63	19.94	21.01	21.44	19.76	20.89	20.19	21.27	21.70
4H	2H	18.00	19.33	18.40	19.68	20.06	18.33	19.66	18.73	20.01	20.39
	3H	19.62	20.73	20.03	21.13	21.53	19.90	21.01	20.31	21.41	21.81
	4H	20.13	21.13	20.56	21.54	21.98	20.34	21.34	20.78	21.76	22.20
	6H	20.40	21.27	20.86	21.71	22.17	20.56	21.43	21.02	21.87	22.33
	8H	20.44	21.25	20.90	21.69	22.16	20.60	21.41	21.06	21.86	22.32
	12H	20.45	21.17	20.93	21.65	22.12	20.63	21.36	21.11	21.83	22.30
8H	4H	20.30	21.11	20.76	21.56	22.02	20.50	21.31	20.96	21.76	22.22
	6H	20.63	21.30	21.12	21.79	22.26	20.77	21.43	21.26	21.92	22.40
	8H	20.69	21.29	21.20	21.80	22.28	20.83	21.43	21.34	21.94	22.42
	12H	20.72	21.25	21.23	21.74	22.30	20.89	21.42	21.40	21.91	22.47
12H	4H	20.30	21.02	20.78	21.50	21.97	20.50	21.22	20.98	21.70	22.17
	6H	20.62	21.22	21.13	21.73	22.21	20.76	21.36	21.27	21.87	22.35
	8H	20.71	21.24	21.22	21.73	22.30	20.85	21.38	21.36	21.87	22.44