

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: P1498783

Luminaire Tested: MAE-G-2-120-3LO-STD-40-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498783
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-STD-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

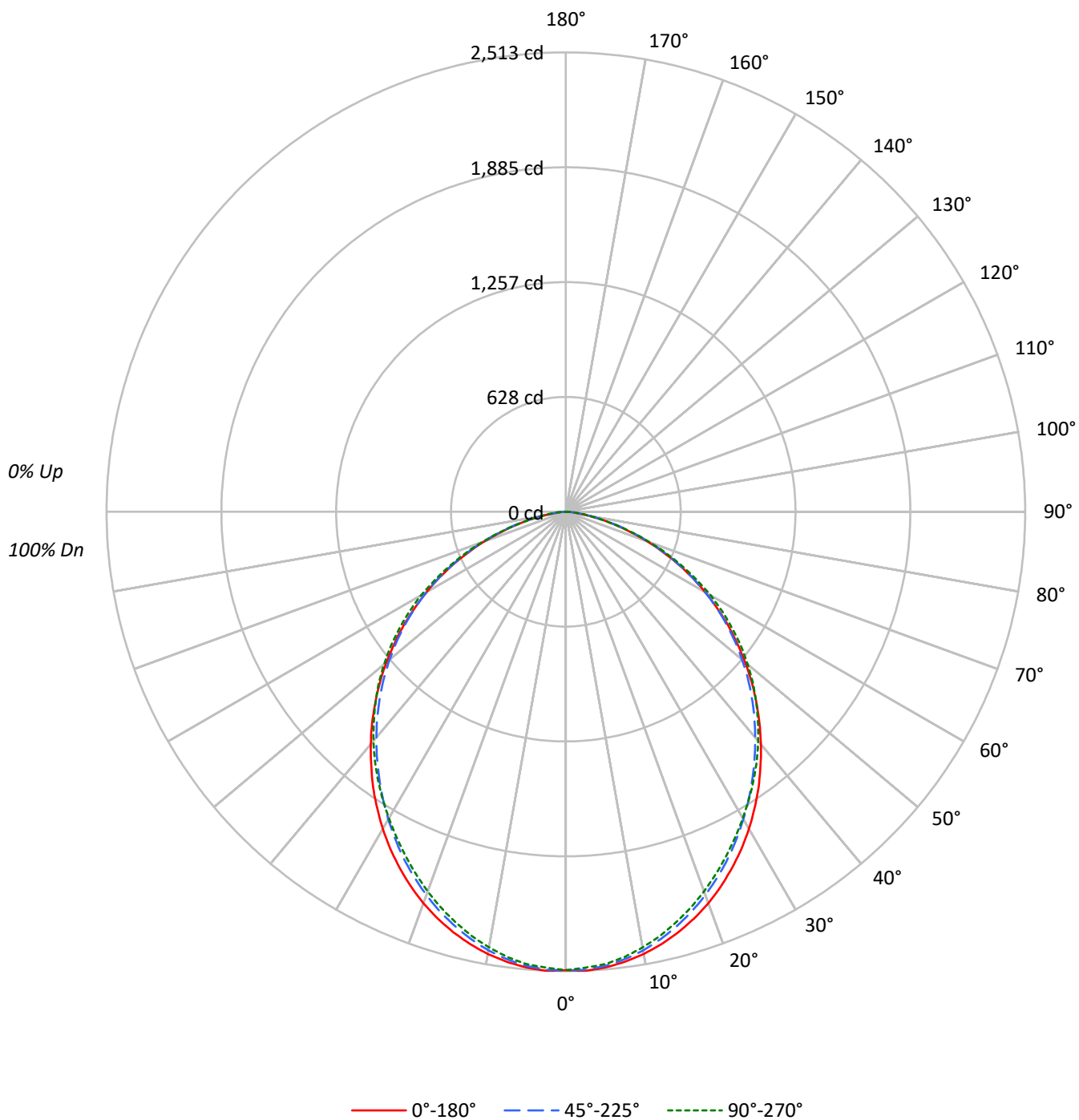
Lumens per Lamp: N/A
Luminaire Lumens: 6123.0 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	92	90	91	89	88	85		
2	100	92	86	80	98	90	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	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	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	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	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°	6748	6748	6748
5°	6759	6735	6708
10°	6713	6657	6612
15°	6633	6536	6480
20°	6526	6390	6328
25°	6385	6222	6166
30°	6224	6035	6015
35°	6041	5847	5885
40°	5833	5663	5750
45°	5608	5477	5604
50°	5362	5270	5436
55°	5082	5033	5208
60°	4737	4734	4925
65°	4310	4341	4459
70°	3720	3806	3840
75°	2964	3088	2995
80°	2010	2126	2103
85°	1050	1420	1791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5608 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.9	3.9
10°-20°	661.0	10.8
20°-30°	967.6	15.8
30°-40°	1122.9	18.3
40°-50°	1121.8	18.3
50°-60°	967.3	15.8
60°-70°	676.2	11.0
70°-80°	312.2	5.1
80°-90°	58.3	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°	1864.5	30.5
0°-40°	2987.3	48.8
0°-60°	5076.4	82.9
0°-90°	6123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2508	2508	2508	2508	2508	
5°	2502	2493	2493	2480	2483	237
15°	2381	2364	2346	2323	2326	671
25°	2150	2126	2096	2071	2077	990
35°	1839	1808	1780	1778	1791	1149
45°	1474	1448	1439	1458	1472	1137
55°	1083	1062	1073	1100	1110	967
65°	677	667	682	696	700	669
75°	285	284	297	293	288	306
85°	34	38	46	54	58	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2507.5	2507.5	2507.5	2507.5	2507.5
2.5°	2513.3	2504.5	2507.5	2496.6	2496.0
5°	2502.2	2492.7	2493.4	2479.6	2483.4
7.5°	2482.9	2472.1	2469.1	2453.4	2456.6
10°	2456.7	2443.5	2436.4	2417.8	2419.9
12.5°	2421.8	2407.4	2395.4	2373.6	2376.9
15°	2380.8	2364.3	2346.2	2323.4	2326.0
17.5°	2333.2	2314.4	2292.2	2266.1	2271.0
20°	2278.8	2257.7	2231.3	2203.9	2209.9
22.5°	2217.7	2194.7	2165.2	2139.2	2144.7
25°	2150.3	2126.0	2095.6	2071.1	2076.7
27.5°	2079.6	2052.4	2020.6	2000.3	2006.7
30°	2003.0	1974.3	1942.3	1926.2	1935.8
32.5°	1922.1	1892.9	1862.5	1853.3	1864.7
35°	1838.8	1807.8	1779.9	1777.9	1791.4
37.5°	1749.3	1721.6	1696.9	1702.3	1715.9
40°	1660.6	1631.7	1612.2	1622.5	1637.0
42.5°	1568.5	1541.8	1526.6	1542.4	1555.7
45°	1473.5	1447.8	1439.2	1458.0	1472.5
47.5°	1379.6	1353.8	1350.5	1372.1	1388.2
50°	1280.7	1257.7	1258.8	1284.3	1298.4
52.5°	1181.2	1159.5	1166.3	1193.7	1208.0
55°	1083.3	1062.4	1072.7	1099.8	1110.1
57.5°	981.6	966.0	978.1	1002.6	1014.1
60°	880.2	865.9	879.6	904.0	915.1
62.5°	778.7	767.0	781.5	803.0	808.2
65°	676.9	666.8	681.8	696.5	700.3
67.5°	573.7	567.2	583.0	593.9	595.4
70°	472.8	465.9	483.8	490.8	488.1
72.5°	375.0	372.0	386.6	389.9	384.0
75°	285.1	283.5	297.0	293.2	288.1
77.5°	201.8	201.7	211.5	206.5	204.2
80°	129.7	133.5	137.2	137.4	135.7
82.5°	73.1	78.0	81.1	90.0	93.8
85°	34.0	37.7	46.0	54.3	58.0
87.5°	11.6	14.6	19.1	20.7	19.5
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	17.57	19.15	17.93	19.46	19.78	17.82	19.41	18.19	19.72	20.03
	3H	19.02	20.45	19.40	20.77	21.14	19.29	20.72	19.67	21.04	21.40
	4H	19.45	20.79	19.85	21.13	21.51	19.70	21.04	20.10	21.39	21.77
	6H	19.66	20.89	20.07	21.26	21.65	19.90	21.14	20.31	21.51	21.90
	8H	19.68	20.86	20.11	21.25	21.65	19.95	21.13	20.37	21.52	21.92
	12H	19.68	20.81	20.11	21.19	21.62	19.97	21.10	20.40	21.48	21.91
4H	2H	18.13	19.47	18.53	19.82	20.20	18.34	19.68	18.74	20.03	20.40
	3H	19.77	20.88	20.18	21.28	21.68	20.00	21.11	20.41	21.51	21.91
	4H	20.28	21.28	20.71	21.69	22.13	20.50	21.50	20.93	21.92	22.36
	6H	20.56	21.43	21.02	21.87	22.33	20.78	21.65	21.24	22.09	22.55
	8H	20.61	21.42	21.07	21.86	22.33	20.85	21.66	21.31	22.10	22.57
	12H	20.62	21.35	21.10	21.82	22.29	20.90	21.62	21.38	22.10	22.57
8H	4H	20.47	21.28	20.93	21.73	22.19	20.67	21.49	21.14	21.93	22.40
	6H	20.81	21.48	21.31	21.97	22.45	21.01	21.68	21.51	22.17	22.65
	8H	20.88	21.48	21.39	21.99	22.48	21.11	21.71	21.62	22.22	22.71
	12H	20.92	21.45	21.43	21.94	22.50	21.20	21.73	21.71	22.22	22.78
12H	4H	20.47	21.20	20.95	21.68	22.15	20.67	21.40	21.15	21.88	22.35
	6H	20.81	21.41	21.32	21.92	22.41	21.01	21.61	21.52	22.12	22.61
	8H	20.92	21.45	21.42	21.94	22.50	21.14	21.67	21.65	22.17	22.73