

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: P1498816

Luminaire Tested: MAE-G-2-120-3STD-HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498816
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-2-120-3STD-HI-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

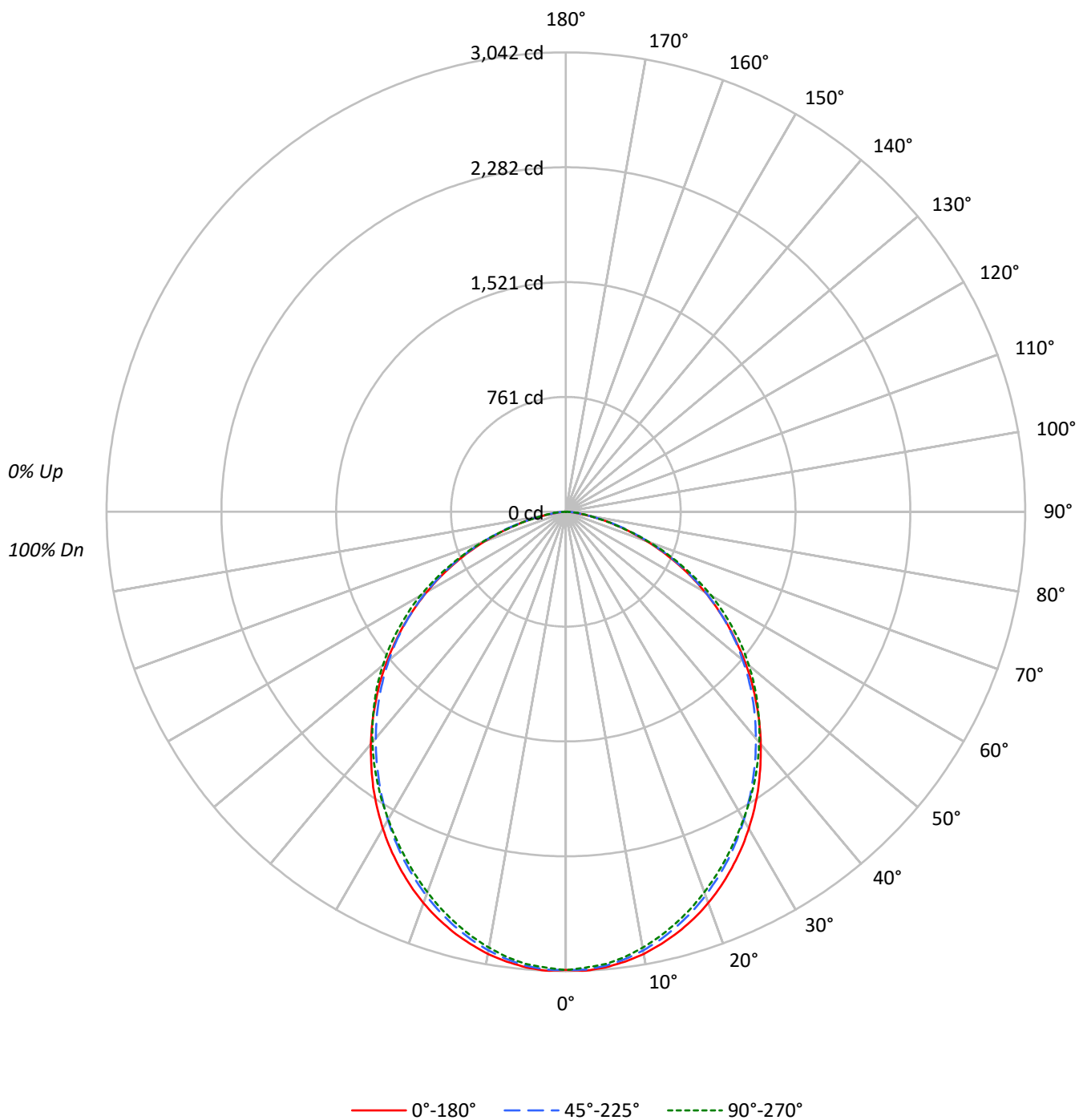
Lumens per Lamp: N/A
Luminaire Lumens: 7425.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 94.8
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	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	56		66	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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	34		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	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8166	8166	8166
5°	8180	8152	8121
10°	8124	8061	8009
15°	8026	7918	7856
20°	7897	7745	7679
25°	7726	7546	7488
30°	7530	7323	7310
35°	7307	7097	7158
40°	7056	6878	6999
45°	6783	6655	6826
50°	6484	6406	6626
55°	6145	6120	6351
60°	5727	5758	6000
65°	5209	5279	5415
70°	4493	4618	4638
75°	3578	3724	3579
80°	2422	2534	2467
85°	1257	1664	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6826 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.5	3.8
10°-20°	800.7	10.8
20°-30°	1173.0	15.8
30°-40°	1362.4	18.3
40°-50°	1362.3	18.3
50°-60°	1175.3	15.8
60°-70°	820.7	11.1
70°-80°	376.1	5.1
80°-90°	68.9	0.9
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°	2259.3	30.4
0°-40°	3621.7	48.8
0°-60°	6159.3	83.0
0°-90°	7425.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7425.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3035	3035	3035	3035	3035	
5°	3028	3016	3018	3002	3006	287
15°	2881	2862	2842	2816	2820	812
25°	2602	2574	2541	2514	2522	1198
35°	2224	2189	2160	2161	2179	1390
45°	1782	1754	1749	1775	1794	1375
55°	1310	1287	1304	1340	1354	1169
65°	818	808	829	846	850	808
75°	344	343	358	351	344	370
85°	41	45	54	63	67	60
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3034.6	3034.6	3034.6	3034.6	3034.6
2.5°	3041.7	3030.7	3034.6	3022.1	3020.9
5°	3028.3	3016.4	3017.9	3001.9	3006.4
7.5°	3004.9	2991.7	2989.0	2970.9	2974.6
10°	2973.1	2957.2	2949.9	2928.6	2931.2
12.5°	2930.9	2913.7	2900.8	2876.2	2880.3
15°	2881.1	2861.7	2842.0	2816.5	2819.9
17.5°	2823.6	2801.4	2777.4	2748.1	2754.4
20°	2757.5	2733.0	2704.4	2673.6	2681.4
22.5°	2683.4	2656.9	2624.8	2596.0	2603.3
25°	2602.0	2574.1	2541.4	2514.2	2521.8
27.5°	2516.1	2485.1	2451.1	2429.2	2437.7
30°	2423.3	2390.6	2356.6	2339.9	2352.6
32.5°	2325.3	2292.2	2260.2	2252.0	2267.0
35°	2224.4	2189.4	2160.5	2161.3	2178.9
37.5°	2116.1	2085.2	2060.3	2070.0	2087.8
40°	2008.5	1976.4	1958.0	1973.6	1992.5
42.5°	1897.2	1867.7	1854.5	1877.0	1894.4
45°	1782.3	1753.9	1748.7	1774.6	1793.7
47.5°	1668.7	1640.2	1641.4	1670.6	1691.5
50°	1548.7	1523.8	1530.2	1564.2	1582.7
52.5°	1428.6	1404.8	1418.1	1454.4	1472.9
55°	1309.9	1287.4	1304.4	1340.2	1353.6
57.5°	1186.8	1170.6	1189.5	1221.6	1236.1
60°	1064.2	1049.5	1069.9	1101.0	1114.8
62.5°	941.3	929.7	950.5	977.4	983.3
65°	818.0	808.3	829.1	846.2	850.4
67.5°	693.0	687.6	708.4	720.2	721.4
70°	571.1	564.8	586.9	593.7	589.5
72.5°	452.6	450.7	467.7	469.7	461.8
75°	344.1	343.4	358.2	351.4	344.2
77.5°	243.4	243.8	253.9	245.7	242.1
80°	156.3	160.8	163.5	161.8	159.2
82.5°	87.8	93.5	95.7	105.4	109.5
85°	40.7	44.9	53.9	63.4	67.4
87.5°	13.9	17.2	22.3	24.0	22.6
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	18.23	19.81	18.59	20.13	20.44	18.53	20.11	18.89	20.42	20.74
	3H	19.68	21.11	20.06	21.43	21.80	19.98	21.40	20.36	21.73	22.09
	4H	20.11	21.44	20.50	21.79	22.17	20.38	21.72	20.78	22.06	22.44
	6H	20.31	21.55	20.72	21.91	22.31	20.57	21.80	20.98	22.17	22.56
	8H	20.34	21.52	20.76	21.91	22.31	20.60	21.78	21.03	22.17	22.57
	12H	20.34	21.47	20.77	21.85	22.28	20.63	21.75	21.06	22.14	22.57
4H	2H	18.80	20.14	19.20	20.49	20.86	19.04	20.38	19.44	20.73	21.10
	3H	20.43	21.54	20.84	21.94	22.34	20.68	21.79	21.09	22.19	22.59
	4H	20.94	21.94	21.37	22.36	22.79	21.17	22.17	21.60	22.59	23.02
	6H	21.22	22.09	21.68	22.53	22.99	21.44	22.31	21.89	22.75	23.21
	8H	21.26	22.08	21.73	22.52	22.99	21.49	22.31	21.96	22.75	23.22
	12H	21.28	22.00	21.76	22.48	22.95	21.54	22.27	22.02	22.74	23.21
8H	4H	21.13	21.94	21.59	22.39	22.85	21.34	22.15	21.80	22.60	23.06
	6H	21.47	22.14	21.96	22.63	23.10	21.66	22.33	22.15	22.82	23.30
	8H	21.53	22.14	22.05	22.64	23.13	21.75	22.35	22.26	22.86	23.35
	12H	21.57	22.10	22.08	22.59	23.16	21.83	22.36	22.34	22.85	23.42
12H	4H	21.13	21.86	21.61	22.33	22.80	21.34	22.06	21.82	22.54	23.01
	6H	21.46	22.07	21.98	22.57	23.06	21.65	22.26	22.17	22.76	23.25
	8H	21.57	22.10	22.08	22.59	23.15	21.78	22.31	22.29	22.80	23.37