

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: P1499011

Luminaire Tested: MAE-G-4-120-1LO-HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1LO-HI-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

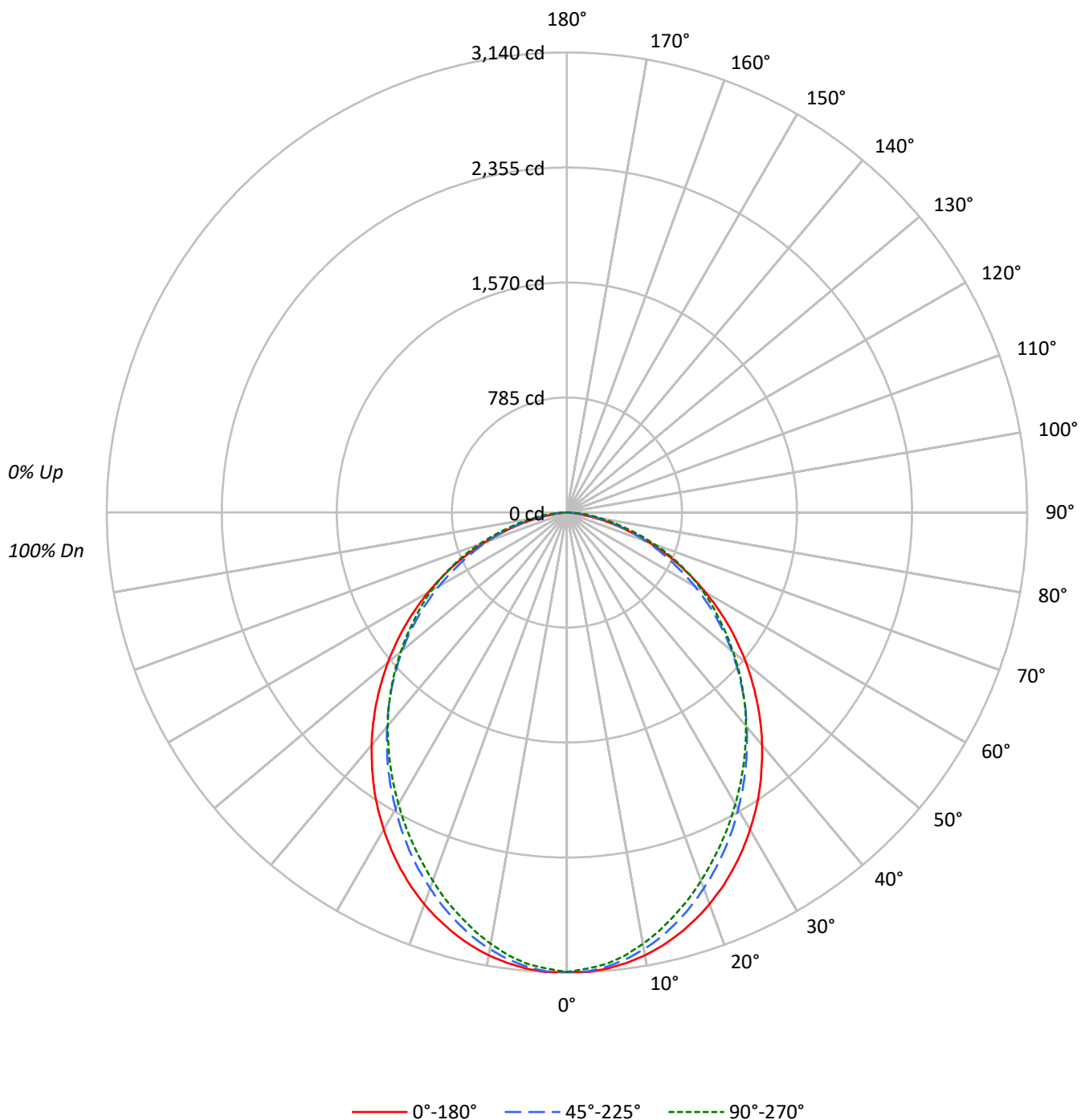
Lumens per Lamp: N/A
Luminaire Lumens: 7427.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4220	4220	4220
5°	4222	4204	4178
10°	4193	4137	4085
15°	4142	4033	3962
20°	4073	3908	3831
25°	3986	3776	3698
30°	3883	3631	3570
35°	3770	3494	3452
40°	3641	3353	3340
45°	3497	3214	3221
50°	3343	3069	3097
55°	3163	2904	2976
60°	2944	2715	2881
65°	2687	2485	2732
70°	2339	2265	2518
75°	1876	1987	2196
80°	1309	1618	1864
85°	736	1288	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3497 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.0	4.0
10°-20°	816.5	11.0
20°-30°	1180.3	15.9
30°-40°	1352.1	18.2
40°-50°	1332.5	17.9
50°-60°	1137.4	15.3
60°-70°	808.5	10.9
70°-80°	409.7	5.5
80°-90°	95.9	1.3
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°	2290.8	30.8
0°-40°	3642.9	49.0
0°-60°	6112.8	82.3
0°-90°	7427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3136	3136	3136	3136	3136	
5°	3126	3124	3112	3086	3094	297
15°	2974	2953	2896	2843	2844	838
25°	2685	2636	2543	2490	2491	1236
35°	2295	2226	2127	2096	2101	1434
45°	1838	1770	1689	1685	1692	1417
55°	1348	1286	1238	1251	1268	1204
65°	844	794	780	834	858	835
75°	361	339	382	416	422	389
85°	48	60	83	103	112	67
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3136.2	3136.2	3136.2	3136.2	3136.2
2.5°	3139.7	3142.8	3136.2	3110.8	3116.5
5°	3126.0	3123.7	3112.5	3086.1	3093.5
7.5°	3101.5	3096.3	3076.2	3044.0	3048.5
10°	3069.0	3058.7	3027.8	2986.9	2989.7
12.5°	3026.4	3011.7	2967.8	2919.9	2922.0
15°	2973.7	2953.0	2895.6	2842.7	2844.1
17.5°	2913.2	2887.9	2817.5	2759.7	2765.0
20°	2844.8	2811.4	2729.4	2672.5	2675.4
22.5°	2768.7	2727.4	2640.0	2582.9	2582.9
25°	2685.0	2635.6	2543.3	2490.3	2490.8
27.5°	2595.3	2540.2	2443.0	2392.5	2395.8
30°	2499.2	2439.2	2337.2	2294.2	2297.8
32.5°	2399.9	2335.5	2233.7	2197.0	2200.6
35°	2295.4	2225.6	2127.2	2095.9	2101.4
37.5°	2183.9	2115.7	2017.3	1997.3	2001.8
40°	2072.8	2002.5	1909.1	1894.8	1901.8
42.5°	1957.3	1888.4	1800.3	1790.7	1799.3
45°	1837.8	1769.9	1689.3	1685.1	1692.5
47.5°	1716.8	1650.4	1579.0	1578.1	1588.9
50°	1596.9	1531.9	1466.3	1470.8	1479.4
52.5°	1469.8	1408.4	1353.6	1360.1	1375.0
55°	1348.3	1286.0	1237.9	1250.7	1268.5
57.5°	1221.9	1167.5	1124.3	1146.2	1170.8
60°	1094.0	1041.1	1008.8	1044.8	1070.6
62.5°	967.9	916.6	892.9	942.1	964.6
65°	844.0	794.2	780.4	834.3	858.1
67.5°	719.7	675.3	677.9	735.2	752.9
70°	594.5	554.2	575.8	627.5	640.0
72.5°	475.6	442.8	479.0	521.3	528.4
75°	360.8	339.2	382.3	415.8	422.4
77.5°	258.9	247.6	290.9	318.5	325.9
80°	168.9	172.3	208.8	232.4	240.6
82.5°	98.9	109.0	138.4	165.0	173.4
85°	47.7	59.8	83.4	103.3	112.0
87.5°	16.3	24.4	35.3	39.3	38.2
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	15.84	17.42	16.21	17.74	18.05	15.69	17.28	16.06	17.59	17.90
	3H	17.31	18.74	17.69	19.06	19.43	17.43	18.86	17.81	19.19	19.55
	4H	17.75	19.09	18.15	19.44	19.82	18.02	19.36	18.42	19.71	20.09
	6H	17.98	19.22	18.39	19.59	19.98	18.41	19.65	18.82	20.02	20.41
	8H	18.02	19.20	18.45	19.59	19.99	18.54	19.72	18.96	20.11	20.51
	12H	18.03	19.16	18.46	19.54	19.97	18.63	19.76	19.06	20.14	20.57
4H	2H	16.33	17.67	16.73	18.01	18.39	16.20	17.54	16.60	17.89	18.27
	3H	17.99	19.11	18.40	19.51	19.91	18.16	19.27	18.57	19.67	20.07
	4H	18.52	19.52	18.95	19.94	20.38	18.87	19.88	19.30	20.29	20.73
	6H	18.83	19.71	19.29	20.15	20.61	19.38	20.26	19.83	20.70	21.16
	8H	18.89	19.71	19.36	20.16	20.62	19.55	20.37	20.01	20.81	21.28
	12H	18.92	19.66	19.40	20.13	20.60	19.68	20.42	20.16	20.89	21.36
8H	4H	18.76	19.58	19.22	20.02	20.49	19.07	19.89	19.53	20.34	20.80
	6H	19.15	19.82	19.64	20.31	20.79	19.68	20.36	20.18	20.85	21.32
	8H	19.24	19.85	19.75	20.36	20.85	19.92	20.52	20.43	21.03	21.52
	12H	19.30	19.84	19.81	20.33	20.89	20.12	20.66	20.63	21.15	21.71
12H	4H	18.78	19.51	19.26	19.99	20.46	19.08	19.81	19.56	20.29	20.76
	6H	19.18	19.79	19.69	20.30	20.78	19.69	20.30	20.20	20.81	21.30
	8H	19.32	19.86	19.83	20.35	20.91	19.98	20.51	20.48	21.01	21.57