

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: P1498168

Luminaire Tested: MAE-G-2-120-1LO-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498168
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-2-120-1LO-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

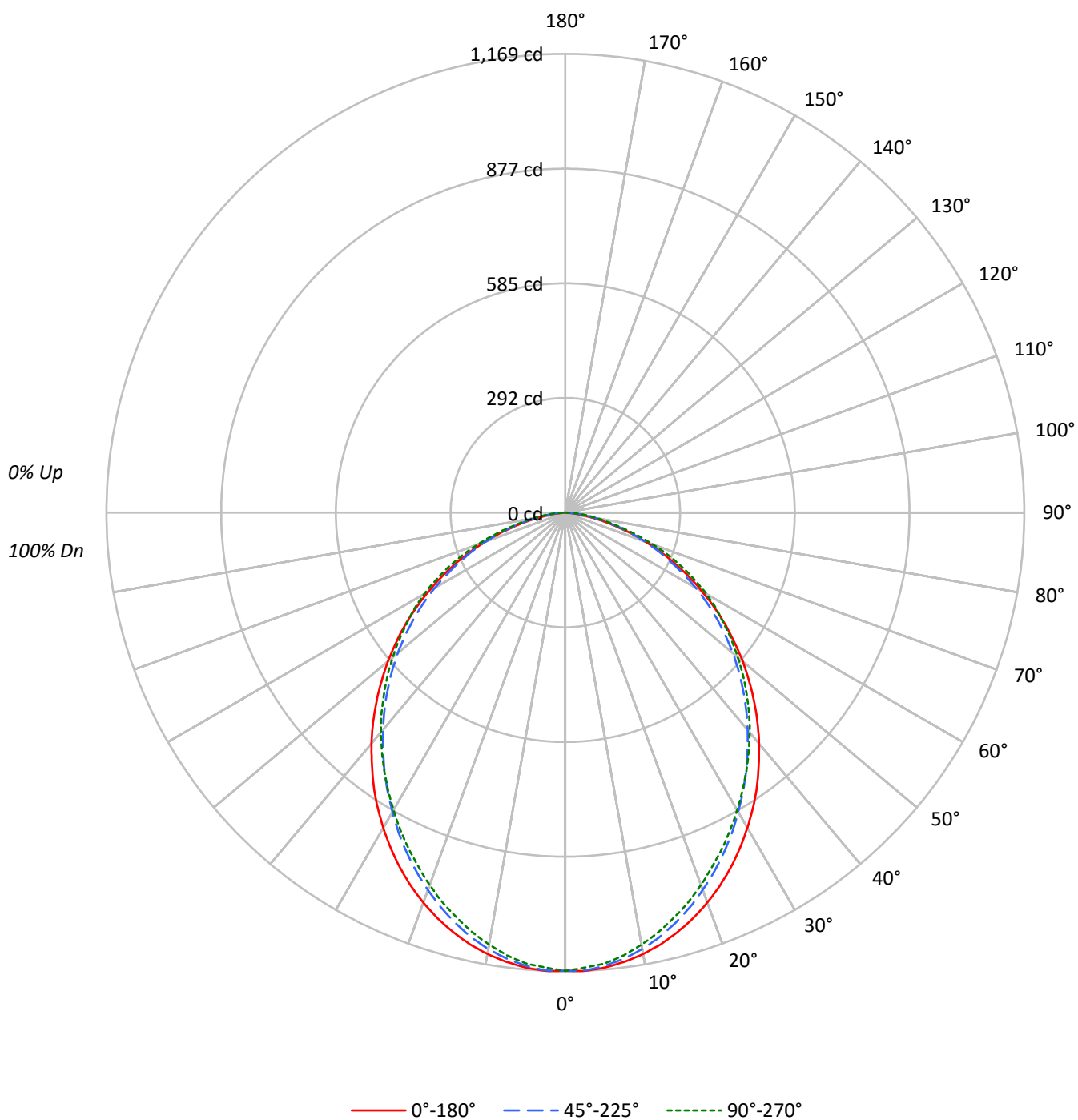
Lumens per Lamp: N/A
Luminaire Lumens: 2790.0 lumens
Efficiency: N/A
Efficacy: 76.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	109	105	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	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	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°	3143	3143	3143
5°	3144	3132	3116
10°	3121	3086	3055
15°	3082	3016	2977
20°	3029	2930	2892
25°	2962	2838	2805
30°	2882	2736	2719
35°	2796	2639	2641
40°	2697	2537	2567
45°	2587	2437	2485
50°	2470	2331	2401
55°	2334	2207	2313
60°	2167	2066	2237
65°	1973	1883	2087
70°	1713	1697	1870
75°	1368	1451	1551
80°	948	1131	1246
85°	531	871	1136

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2587 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.6	3.9
10°-20°	305.4	10.9
20°-30°	443.2	15.9
30°-40°	509.7	18.3
40°-50°	504.1	18.1
50°-60°	431.4	15.5
60°-70°	304.7	10.9
70°-80°	149.1	5.3
80°-90°	32.9	1.2
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°	858.2	30.8
0°-40°	1367.9	49.0
0°-60°	2303.4	82.6
0°-90°	2790.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1164	1163	1159	1151	1154	110
15°	1106	1100	1083	1067	1069	312
25°	998	982	956	942	945	459
35°	851	830	803	799	804	532
45°	680	660	640	647	653	524
55°	498	480	470	483	493	444
65°	310	296	296	318	328	307
75°	132	126	140	149	149	142
85°	17	21	28	34	37	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1168.0	1168.0	1168.0	1168.0	1168.0
2.5°	1169.2	1170.2	1168.0	1159.0	1160.6
5°	1163.9	1162.9	1159.3	1150.9	1153.5
7.5°	1154.7	1153.0	1146.5	1136.5	1138.2
10°	1142.3	1139.0	1129.4	1116.8	1118.2
12.5°	1126.4	1121.9	1108.3	1093.9	1095.2
15°	1106.4	1100.0	1082.6	1067.2	1068.7
17.5°	1083.6	1076.1	1054.9	1038.3	1041.4
20°	1057.6	1047.6	1023.3	1007.3	1009.9
22.5°	1029.0	1016.5	990.8	975.3	977.2
25°	997.6	982.4	955.8	942.4	944.6
27.5°	963.6	946.9	919.5	907.0	910.7
30°	927.4	909.4	880.4	871.2	875.2
32.5°	890.3	871.0	842.3	835.9	839.8
35°	851.2	830.2	803.3	798.9	803.8
37.5°	809.3	789.1	762.5	762.8	767.4
40°	767.8	746.9	722.3	725.0	730.8
42.5°	724.8	704.5	681.9	686.2	693.0
45°	679.9	660.4	640.4	646.8	653.1
47.5°	634.8	615.6	599.0	606.6	614.3
50°	590.0	571.5	556.8	566.4	573.6
52.5°	542.9	525.4	514.3	524.7	534.0
55°	497.5	479.6	470.4	483.0	493.1
57.5°	450.4	435.5	427.6	442.7	455.5
60°	402.6	388.0	383.8	403.4	415.7
62.5°	355.9	341.5	339.1	362.5	371.6
65°	309.8	295.8	295.8	317.9	327.7
67.5°	264.1	251.3	256.2	277.7	284.4
70°	217.7	206.2	215.7	234.2	237.7
72.5°	174.0	164.4	177.6	190.9	192.1
75°	131.6	125.6	139.6	148.7	149.2
77.5°	94.2	91.1	104.2	110.8	111.5
80°	61.2	62.5	73.0	78.2	80.4
82.5°	35.7	38.9	47.2	55.2	57.5
85°	17.2	21.1	28.2	34.3	36.8
87.5°	6.0	8.6	11.8	13.1	12.7
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	14.78	16.37	15.15	16.68	16.99	14.90	16.48	15.27	16.80	17.11
	3H	16.24	17.66	16.61	17.99	18.35	16.56	17.99	16.94	18.31	18.67
	4H	16.67	18.00	17.06	18.35	18.73	17.08	18.41	17.48	18.76	19.14
	6H	16.89	18.13	17.30	18.49	18.88	17.39	18.63	17.80	18.99	19.38
	8H	16.92	18.10	17.35	18.49	18.89	17.48	18.66	17.91	19.05	19.45
	12H	16.93	18.06	17.36	18.44	18.87	17.55	18.68	17.98	19.06	19.49
4H	2H	15.29	16.63	15.69	16.98	17.36	15.39	16.73	15.79	17.08	17.45
	3H	16.93	18.05	17.34	18.45	18.85	17.26	18.37	17.67	18.77	19.17
	4H	17.45	18.45	17.88	18.87	19.30	17.89	18.89	18.32	19.30	19.74
	6H	17.75	18.63	18.21	19.07	19.53	18.30	19.18	18.76	19.62	20.08
	8H	17.81	18.63	18.27	19.07	19.53	18.43	19.25	18.89	19.69	20.16
	12H	17.83	18.56	18.31	19.04	19.51	18.53	19.27	19.02	19.74	20.21
8H	4H	17.68	18.49	18.14	18.94	19.40	18.07	18.89	18.53	19.33	19.80
	6H	18.05	18.72	18.54	19.21	19.69	18.57	19.25	19.06	19.73	20.21
	8H	18.14	18.74	18.65	19.25	19.74	18.75	19.36	19.27	19.87	20.36
	12H	18.19	18.72	18.70	19.22	19.78	18.92	19.45	19.43	19.95	20.51
12H	4H	17.69	18.42	18.17	18.90	19.37	18.07	18.80	18.55	19.28	19.75
	6H	18.07	18.68	18.58	19.18	19.67	18.58	19.18	19.09	19.69	20.18
	8H	18.20	18.73	18.71	19.23	19.79	18.81	19.34	19.31	19.83	20.40