

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: P1498150

Luminaire Tested: MAE-G-2-120-1LO-HI-35-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498150
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-HI-35-90-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

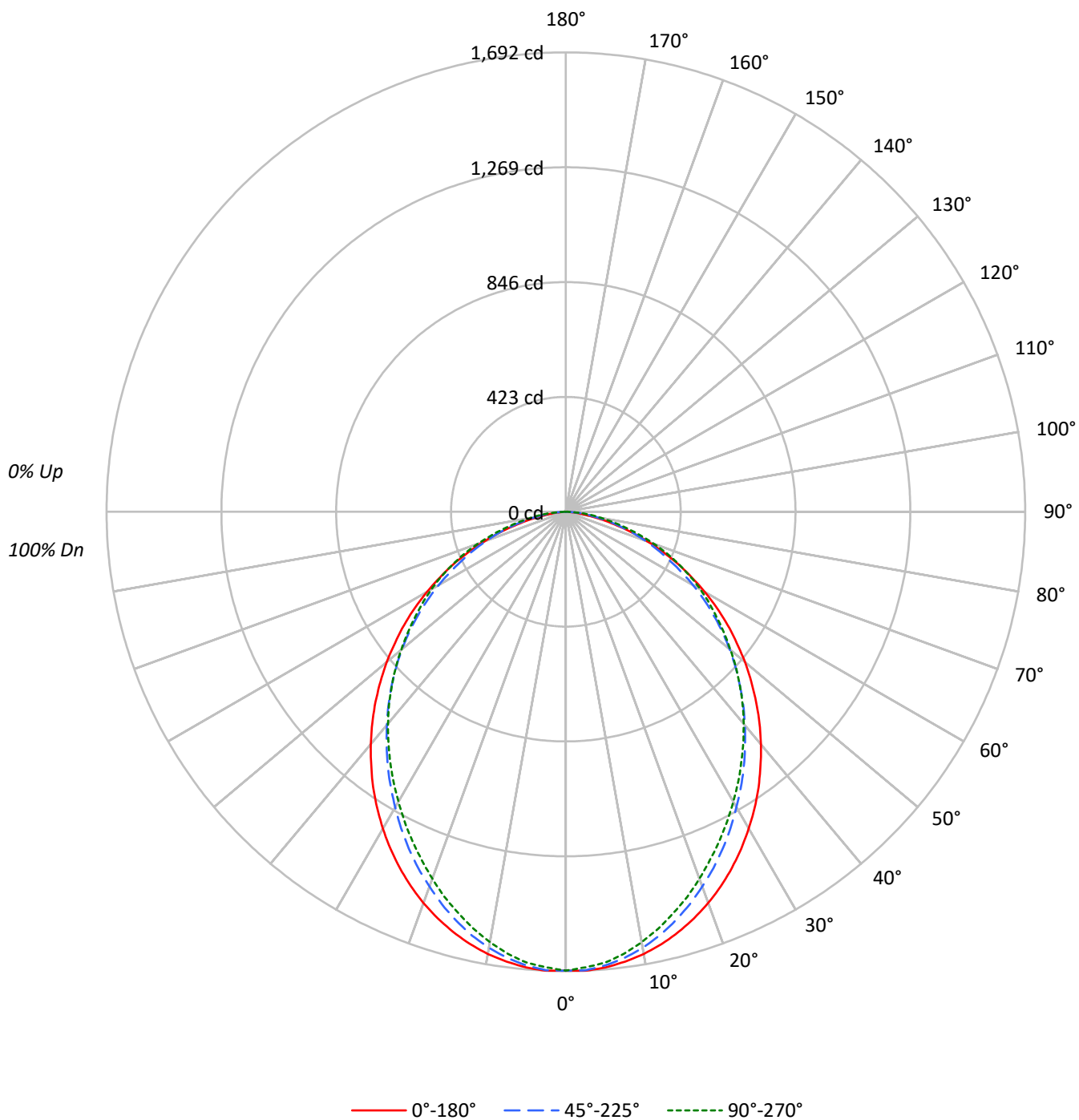
Lumens per Lamp: N/A
Luminaire Lumens: 3996.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 54.7
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	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80
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	77	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°	4548	4548	4548
5°	4551	4530	4502
10°	4519	4457	4399
15°	4465	4344	4263
20°	4391	4207	4119
25°	4298	4063	3972
30°	4187	3905	3832
35°	4066	3756	3703
40°	3927	3604	3580
45°	3773	3454	3449
50°	3607	3296	3313
55°	3414	3118	3182
60°	3180	2915	3082
65°	2903	2669	2931
70°	2528	2438	2714
75°	2030	2149	2388
80°	1418	1762	2044
85°	797	1411	1902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3773 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.4	4.0
10°-20°	439.6	11.0
20°-30°	635.1	15.9
30°-40°	727.0	18.2
40°-50°	716.1	17.9
50°-60°	610.9	15.3
60°-70°	434.8	10.9
70°-80°	221.7	5.5
80°-90°	52.4	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°	1233.1	30.9
0°-40°	1960.2	49.1
0°-60°	3287.1	82.3
0°-90°	3996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3996.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1690	1690	1690	1690	1690	
5°	1685	1683	1677	1662	1667	160
15°	1603	1591	1559	1530	1530	452
25°	1447	1420	1368	1338	1338	666
35°	1238	1199	1144	1125	1127	773
45°	992	953	908	903	906	765
55°	728	693	665	670	678	650
65°	456	428	419	448	460	451
75°	195	183	207	226	230	210
85°	26	32	46	57	62	36
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1690.0	1690.0	1690.0	1690.0	1690.0
2.5°	1691.8	1693.5	1690.0	1676.2	1679.3
5°	1684.6	1683.3	1677.1	1662.5	1666.6
7.5°	1671.4	1668.5	1657.4	1639.6	1642.0
10°	1653.8	1648.1	1631.0	1608.4	1609.8
12.5°	1631.0	1622.8	1598.4	1571.7	1572.7
15°	1602.7	1591.2	1559.2	1529.6	1530.2
17.5°	1570.1	1556.0	1516.8	1484.4	1487.0
20°	1533.3	1514.8	1469.0	1437.1	1438.2
22.5°	1492.5	1469.5	1420.7	1388.5	1388.0
25°	1447.4	1420.0	1368.3	1338.1	1337.9
27.5°	1399.2	1368.5	1314.0	1285.2	1286.3
30°	1347.5	1314.1	1256.8	1232.0	1233.3
32.5°	1294.0	1258.2	1201.0	1179.4	1180.8
35°	1237.8	1198.9	1143.5	1124.8	1127.1
37.5°	1177.8	1139.7	1084.3	1071.5	1073.2
40°	1118.0	1078.7	1025.9	1016.2	1019.1
42.5°	1055.7	1017.2	967.3	960.0	963.8
45°	991.5	953.3	907.5	903.1	906.3
47.5°	926.2	889.1	848.1	845.5	850.5
50°	861.7	825.1	787.4	787.8	791.4
52.5°	793.1	758.7	726.8	728.4	735.4
55°	727.7	692.7	664.6	669.7	678.3
57.5°	659.5	628.9	603.6	613.7	625.9
60°	590.8	560.9	541.6	559.4	572.7
62.5°	522.7	493.9	479.5	504.8	516.7
65°	455.9	428.0	419.2	447.8	460.3
67.5°	388.8	363.9	364.4	395.1	404.7
70°	321.3	298.8	309.9	338.1	345.0
72.5°	257.1	238.7	258.3	281.6	285.9
75°	195.2	183.0	206.7	225.7	229.7
77.5°	140.1	133.7	157.8	173.6	178.1
80°	91.5	93.3	113.7	127.3	131.9
82.5°	53.6	59.2	75.7	90.5	95.2
85°	25.8	32.5	45.7	56.8	61.6
87.5°	8.8	13.2	19.3	21.5	20.9
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	16.11	17.69	16.47	18.00	18.32	15.91	17.49	16.28	17.81	18.12
	3H	17.58	19.01	17.96	19.33	19.70	17.67	19.09	18.04	19.42	19.78
	4H	18.02	19.36	18.42	19.71	20.09	18.27	19.61	18.67	19.96	20.33
	6H	18.26	19.50	18.67	19.86	20.25	18.67	19.92	19.09	20.28	20.67
	8H	18.30	19.48	18.72	19.87	20.27	18.81	19.99	19.23	20.38	20.78
	12H	18.30	19.44	18.73	19.82	20.25	18.90	20.04	19.33	20.42	20.85
4H	2H	16.59	17.93	16.99	18.28	18.65	16.43	17.77	16.83	18.12	18.49
	3H	18.26	19.37	18.67	19.77	20.17	18.40	19.51	18.81	19.91	20.31
	4H	18.78	19.79	19.22	20.21	20.64	19.12	20.13	19.56	20.55	20.98
	6H	19.10	19.98	19.56	20.42	20.88	19.65	20.53	20.10	20.97	21.43
	8H	19.17	19.99	19.63	20.43	20.90	19.83	20.65	20.29	21.09	21.56
	12H	19.19	19.93	19.67	20.41	20.88	19.97	20.70	20.45	21.18	21.65
8H	4H	19.03	19.85	19.49	20.29	20.76	19.33	20.15	19.79	20.59	21.06
	6H	19.42	20.10	19.91	20.59	21.06	19.96	20.64	20.45	21.13	21.60
	8H	19.52	20.13	20.03	20.64	21.12	20.20	20.81	20.71	21.32	21.80
	12H	19.58	20.12	20.09	20.61	21.17	20.42	20.95	20.92	21.44	22.01
12H	4H	19.05	19.78	19.53	20.26	20.73	19.33	20.07	19.81	20.55	21.02
	6H	19.45	20.06	19.97	20.57	21.06	19.97	20.58	20.48	21.09	21.58
	8H	19.60	20.14	20.11	20.63	21.19	20.26	20.80	20.77	21.29	21.86