

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: P1498519

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498519
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-40-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

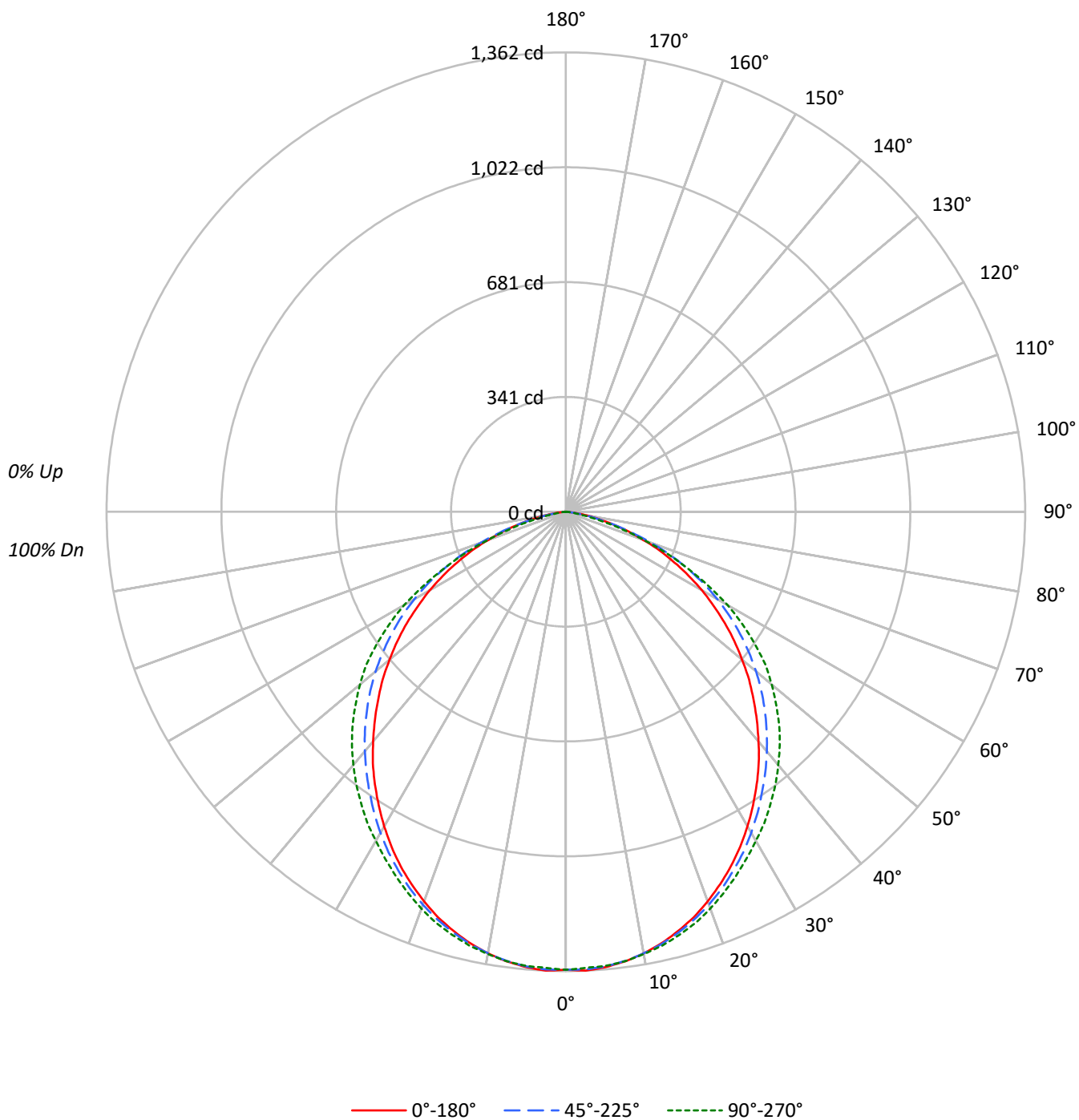
Lumens per Lamp: N/A
Luminaire Lumens: 3428.0 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 34.8
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	50	76	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	38		50	43	38		48
8	62	49	40	35	60	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3654	3654	3654
5°	3661	3655	3651
10°	3633	3633	3638
15°	3584	3597	3619
20°	3521	3550	3586
25°	3442	3487	3540
30°	3347	3416	3502
35°	3242	3333	3475
40°	3122	3258	3442
45°	2994	3176	3405
50°	2856	3081	3336
55°	2698	2958	3210
60°	2507	2792	2981
65°	2261	2537	2552
70°	1930	2112	1973
75°	1515	1529	1232
80°	986	787	473
85°	457	299	241

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3405 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.7
10°-20°	363.8	10.6
20°-30°	540.4	15.8
30°-40°	636.5	18.6
40°-50°	644.9	18.8
50°-60°	561.3	16.4
60°-70°	382.5	11.2
70°-80°	152.9	4.5
80°-90°	17.5	0.5
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°	1032.4	30.1
0°-40°	1669.0	48.7
0°-60°	2875.1	83.9
0°-90°	3428.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3428.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1358	1358	1358	1358	1358	
5°	1355	1347	1353	1351	1352	129
15°	1287	1281	1291	1296	1299	363
25°	1159	1160	1174	1184	1192	533
35°	987	992	1014	1041	1058	617
45°	787	796	835	874	895	607
55°	575	588	630	670	684	514
65°	355	372	398	399	401	352
75°	146	154	147	126	118	157
85°	15	13	10	9	8	23
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1358.0	1358.0	1358.0	1358.0	1358.0
2.5°	1361.8	1353.0	1358.0	1357.1	1353.4
5°	1355.2	1347.4	1353.0	1351.2	1351.6
7.5°	1344.6	1337.3	1343.3	1342.8	1344.2
10°	1329.5	1322.1	1329.5	1329.9	1331.3
12.5°	1310.5	1304.1	1312.8	1314.7	1317.9
15°	1286.6	1281.0	1291.1	1295.8	1299.0
17.5°	1260.8	1257.1	1267.2	1273.2	1278.3
20°	1229.4	1227.5	1239.6	1245.5	1252.4
22.5°	1195.2	1194.3	1208.7	1216.0	1223.0
25°	1159.3	1159.8	1174.5	1184.2	1192.1
27.5°	1119.6	1120.5	1138.6	1150.1	1159.8
30°	1077.2	1079.6	1099.3	1115.0	1127.0
32.5°	1032.5	1036.6	1057.8	1079.6	1094.7
35°	986.8	991.5	1014.5	1041.2	1057.8
37.5°	939.8	944.9	971.6	1003.0	1020.5
40°	888.7	896.4	927.4	961.9	979.9
42.5°	838.3	847.1	881.7	919.5	938.9
45°	786.7	796.4	834.6	873.9	894.6
47.5°	736.9	745.1	786.2	827.3	845.7
50°	682.1	693.1	736.0	777.0	796.8
52.5°	629.5	640.1	683.9	725.8	746.2
55°	575.0	587.5	630.4	670.0	684.3
57.5°	520.2	534.5	576.0	608.7	621.1
60°	465.8	480.0	518.8	544.6	553.8
62.5°	410.8	425.6	459.8	475.5	477.3
65°	355.1	371.7	398.4	398.9	400.8
67.5°	302.1	315.9	335.2	329.7	327.0
70°	245.3	260.5	268.4	257.4	250.8
72.5°	195.1	206.1	204.8	188.6	180.8
75°	145.7	154.5	147.1	126.4	118.5
77.5°	101.0	108.3	93.6	74.2	66.5
80°	63.6	66.9	50.8	36.0	30.5
82.5°	34.1	33.6	21.7	17.9	16.6
85°	14.8	13.4	9.7	8.8	7.8
87.5°	5.1	4.6	3.7	3.3	2.8
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	15.42	17.00	15.78	17.31	17.63	16.38	17.96	16.74	18.28	18.59
	3H	16.84	18.26	17.22	18.59	18.95	17.57	18.99	17.95	19.32	19.68
	4H	17.23	18.57	17.63	18.91	19.29	17.78	19.12	18.18	19.47	19.84
	6H	17.41	18.64	17.82	19.00	19.39	17.80	19.03	18.21	19.40	19.79
	8H	17.42	18.59	17.85	18.98	19.38	17.78	18.95	18.20	19.34	19.74
	12H	17.41	18.53	17.84	18.91	19.34	17.75	18.88	18.18	19.26	19.69
4H	2H	16.08	17.41	16.48	17.76	18.14	16.85	18.19	17.25	18.53	18.91
	3H	17.66	18.76	18.07	19.16	19.56	18.20	19.31	18.61	19.71	20.11
	4H	18.13	19.12	18.56	19.54	19.98	18.47	19.46	18.90	19.88	20.32
	6H	18.37	19.23	18.83	19.68	20.13	18.52	19.38	18.98	19.83	20.28
	8H	18.40	19.20	18.86	19.64	20.11	18.50	19.30	18.96	19.74	20.21
	12H	18.39	19.11	18.88	19.59	20.06	18.48	19.19	18.96	19.67	20.14
8H	4H	18.27	19.07	18.73	19.52	19.98	18.59	19.39	19.05	19.83	20.30
	6H	18.55	19.21	19.04	19.70	20.17	18.65	19.31	19.14	19.80	20.27
	8H	18.58	19.17	19.10	19.68	20.17	18.62	19.21	19.14	19.72	20.21
	12H	18.60	19.12	19.11	19.61	20.17	18.61	19.13	19.12	19.62	20.18
12H	4H	18.25	18.97	18.73	19.45	19.92	18.58	19.29	19.06	19.77	20.24
	6H	18.51	19.11	19.03	19.62	20.10	18.62	19.21	19.13	19.72	20.21
	8H	18.58	19.10	19.09	19.59	20.15	18.62	19.14	19.13	19.63	20.20