

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: P1498507

Luminaire Tested: MAE-G-2-120-2STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498507
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

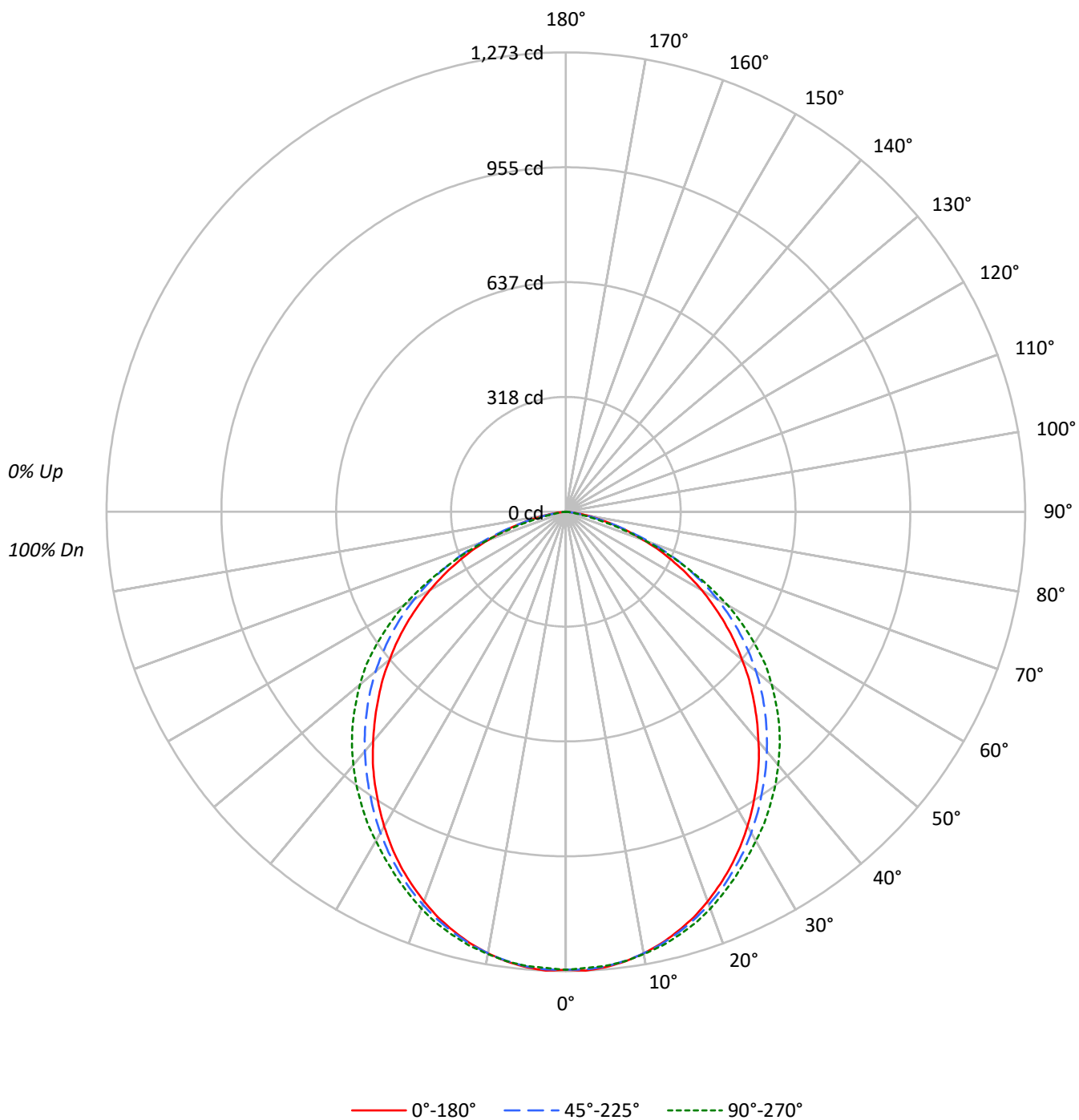
Lumens per Lamp: N/A
Luminaire Lumens: 3204.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	3416	3416	3416
5°	3422	3416	3412
10°	3395	3395	3400
15°	3350	3362	3382
20°	3290	3318	3352
25°	3217	3260	3308
30°	3128	3193	3273
35°	3030	3115	3248
40°	2918	3045	3217
45°	2798	2969	3182
50°	2669	2880	3118
55°	2522	2764	3001
60°	2343	2610	2786
65°	2113	2371	2385
70°	1804	1973	1844
75°	1416	1430	1152
80°	921	735	442
85°	426	278	225

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.9	3.7
10°-20°	340.0	10.6
20°-30°	505.1	15.8
30°-40°	594.9	18.6
40°-50°	602.7	18.8
50°-60°	524.6	16.4
60°-70°	357.5	11.2
70°-80°	142.9	4.5
80°-90°	16.3	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°	965.0	30.1
0°-40°	1559.9	48.7
0°-60°	2687.3	83.9
0°-90°	3204.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1269	1269	1269	1269	1269	
5°	1267	1259	1265	1263	1263	120
15°	1202	1197	1207	1211	1214	339
25°	1084	1084	1098	1107	1114	499
35°	922	927	948	973	989	576
45°	735	744	780	817	836	567
55°	538	549	589	626	640	480
65°	332	347	372	373	375	329
75°	136	144	138	118	111	147
85°	14	12	9	8	7	22
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1269.3	1269.3	1269.3	1269.3	1269.3
2.5°	1272.8	1264.6	1269.3	1268.4	1265.0
5°	1266.7	1259.4	1264.6	1262.9	1263.3
7.5°	1256.8	1249.9	1255.5	1255.1	1256.4
10°	1242.6	1235.7	1242.6	1243.0	1244.3
12.5°	1224.9	1218.9	1227.1	1228.8	1231.8
15°	1202.5	1197.3	1206.8	1211.2	1214.1
17.5°	1178.4	1175.0	1184.4	1190.0	1194.8
20°	1149.0	1147.3	1158.6	1164.1	1170.6
22.5°	1117.1	1116.3	1129.7	1136.6	1143.0
25°	1083.5	1084.0	1097.8	1106.8	1114.2
27.5°	1046.4	1047.3	1064.2	1074.9	1084.0
30°	1006.8	1009.0	1027.5	1042.2	1053.4
32.5°	965.0	968.9	988.7	1009.0	1023.2
35°	922.3	926.7	948.2	973.2	988.7
37.5°	878.4	883.2	908.1	937.5	953.9
40°	830.6	837.8	866.8	899.1	915.8
42.5°	783.5	791.7	824.1	859.4	877.5
45°	735.3	744.4	780.1	816.8	836.1
47.5°	688.7	696.5	734.8	773.2	790.5
50°	637.5	647.8	687.9	726.3	744.8
52.5°	588.3	598.2	639.2	678.4	697.4
55°	537.5	549.1	589.2	626.2	639.6
57.5°	486.2	499.6	538.3	568.9	580.5
60°	435.3	448.7	484.9	509.0	517.7
62.5°	384.0	397.8	429.7	444.4	446.1
65°	331.9	347.4	372.4	372.9	374.6
67.5°	282.4	295.2	313.3	308.2	305.6
70°	229.3	243.5	250.8	240.5	234.4
72.5°	182.3	192.6	191.4	176.2	169.0
75°	136.2	144.4	137.5	118.1	110.8
77.5°	94.4	101.3	87.4	69.4	62.1
80°	59.4	62.5	47.4	33.6	28.5
82.5°	31.9	31.4	20.3	16.8	15.5
85°	13.8	12.5	9.0	8.2	7.3
87.5°	4.8	4.3	3.4	3.0	2.6
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	15.18	16.77	15.55	17.08	17.39	16.14	17.73	16.51	18.04	18.35
	3H	16.61	18.03	16.98	18.35	18.71	17.33	18.75	17.71	19.08	19.44
	4H	17.00	18.33	17.40	18.68	19.06	17.55	18.88	17.95	19.23	19.61
	6H	17.17	18.40	17.58	18.77	19.16	17.57	18.80	17.98	19.16	19.55
	8H	17.19	18.36	17.61	18.75	19.15	17.54	18.72	17.97	19.11	19.51
	12H	17.18	18.30	17.61	18.68	19.11	17.52	18.64	17.95	19.02	19.45
4H	2H	15.85	17.18	16.24	17.53	17.90	16.62	17.95	17.02	18.30	18.68
	3H	17.42	18.53	17.83	18.93	19.33	17.97	19.07	18.38	19.47	19.87
	4H	17.90	18.89	18.33	19.31	19.74	18.24	19.23	18.67	19.64	20.08
	6H	18.14	19.00	18.59	19.44	19.90	18.29	19.15	18.74	19.59	20.05
	8H	18.16	18.96	18.62	19.41	19.87	18.26	19.07	18.73	19.51	19.98
	12H	18.16	18.88	18.64	19.35	19.83	18.24	18.96	18.72	19.44	19.91
8H	4H	18.03	18.84	18.50	19.28	19.75	18.35	19.15	18.81	19.60	20.06
	6H	18.31	18.97	18.81	19.46	19.94	18.41	19.07	18.91	19.56	20.04
	8H	18.35	18.94	18.86	19.45	19.94	18.39	18.98	18.90	19.49	19.97
	12H	18.36	18.88	18.87	19.37	19.94	18.37	18.89	18.88	19.38	19.95
12H	4H	18.02	18.73	18.50	19.21	19.68	18.34	19.06	18.82	19.53	20.01
	6H	18.28	18.87	18.79	19.38	19.87	18.39	18.98	18.90	19.49	19.98
	8H	18.34	18.86	18.85	19.36	19.92	18.39	18.91	18.90	19.40	19.96