

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: P1498291

Luminaire Tested: MAE-G-2-120-1STD-STD-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498291
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-2-120-1STD-STD-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

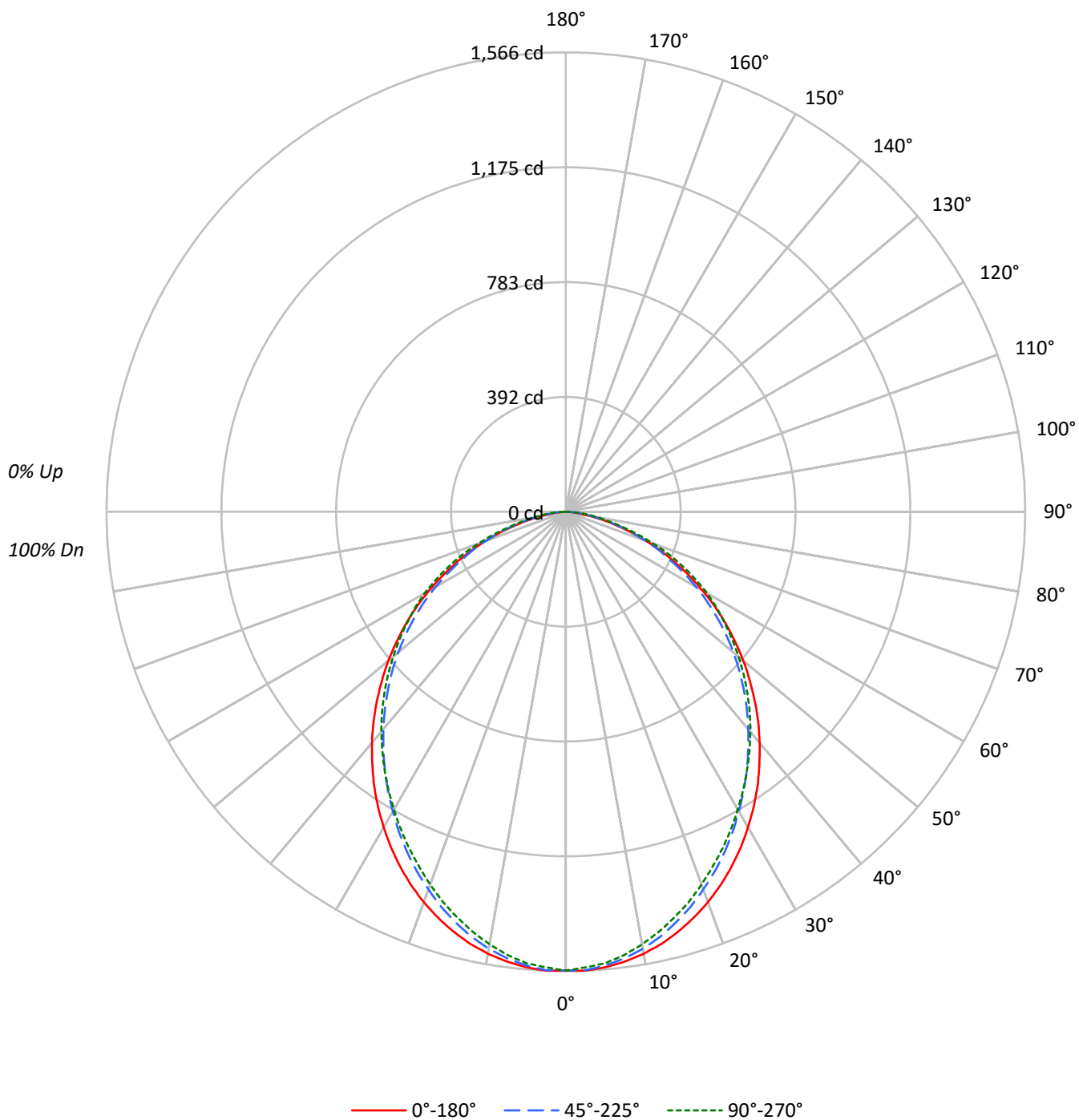
Lumens per Lamp: N/A
Luminaire Lumens: 3736.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72		
3	92	81	74	67	89	80	73	67	77	71	66	74	69	65	72	67	63	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4208	4208	4208
5°	4210	4194	4172
10°	4180	4133	4091
15°	4128	4039	3987
20°	4056	3924	3872
25°	3966	3801	3756
30°	3859	3663	3642
35°	3744	3533	3536
40°	3612	3398	3438
45°	3464	3264	3329
50°	3308	3121	3216
55°	3125	2956	3098
60°	2902	2765	2996
65°	2642	2521	2794
70°	2293	2272	2504
75°	1833	1943	2077
80°	1269	1514	1667
85°	710	1164	1525

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3464 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.8	3.9
10°-20°	408.9	10.9
20°-30°	593.5	15.9
30°-40°	682.5	18.3
40°-50°	675.0	18.1
50°-60°	577.7	15.5
60°-70°	408.0	10.9
70°-80°	199.6	5.3
80°-90°	44.0	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°	1149.2	30.8
0°-40°	1831.7	49.0
0°-60°	3084.4	82.6
0°-90°	3736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1564	1564	1564	1564	1564	
5°	1559	1557	1552	1541	1545	148
15°	1482	1473	1450	1429	1431	417
25°	1336	1316	1280	1262	1265	615
35°	1140	1112	1076	1070	1076	712
45°	910	884	858	866	875	702
55°	666	642	630	647	660	595
65°	415	396	396	426	439	410
75°	176	168	187	199	200	190
85°	23	28	38	46	49	33
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1563.9	1563.9	1563.9	1563.9	1563.9
2.5°	1565.7	1567.0	1563.9	1552.1	1554.2
5°	1558.6	1557.3	1552.5	1541.1	1544.6
7.5°	1546.2	1544.0	1535.3	1521.8	1524.0
10°	1529.7	1525.3	1512.4	1495.4	1497.2
12.5°	1508.3	1502.3	1484.1	1464.7	1466.6
15°	1481.6	1473.0	1449.7	1429.1	1431.0
17.5°	1451.0	1441.0	1412.6	1390.3	1394.5
20°	1416.2	1402.9	1370.2	1348.8	1352.2
22.5°	1377.9	1361.2	1326.7	1306.0	1308.5
25°	1335.8	1315.5	1280.0	1261.9	1264.9
27.5°	1290.4	1267.9	1231.3	1214.5	1219.4
30°	1241.9	1217.7	1178.9	1166.8	1172.0
32.5°	1192.1	1166.3	1127.9	1119.4	1124.7
35°	1139.7	1111.7	1075.6	1069.8	1076.5
37.5°	1083.7	1056.7	1020.9	1021.5	1027.7
40°	1028.2	1000.2	967.3	970.8	978.6
42.5°	970.5	943.3	913.1	919.0	927.9
45°	910.3	884.4	857.6	866.1	874.7
47.5°	850.0	824.3	802.1	812.3	822.7
50°	790.1	765.3	745.6	758.5	768.1
52.5°	727.1	703.5	688.8	702.5	715.1
55°	666.1	642.2	630.0	646.8	660.4
57.5°	603.1	583.2	572.5	592.8	609.9
60°	539.2	519.5	513.8	540.2	556.6
62.5°	476.5	457.4	454.0	485.5	497.7
65°	414.9	396.0	396.0	425.8	438.8
67.5°	353.7	336.5	343.0	371.9	380.8
70°	291.5	276.1	288.8	313.5	318.3
72.5°	233.0	220.1	237.9	255.7	257.2
75°	176.3	168.1	186.9	199.2	199.8
77.5°	126.1	122.0	139.5	148.3	149.3
80°	81.9	83.7	97.7	104.7	107.6
82.5°	47.8	52.1	63.2	74.0	76.9
85°	23.0	28.2	37.7	45.9	49.4
87.5°	7.9	11.4	15.7	17.5	17.0
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	15.80	17.38	16.16	17.69	18.01	15.92	17.50	16.28	17.81	18.13
	3H	17.25	18.67	17.63	19.00	19.36	17.58	19.00	17.95	19.33	19.69
	4H	17.68	19.02	18.08	19.37	19.74	18.09	19.43	18.49	19.78	20.15
	6H	17.90	19.14	18.31	19.51	19.90	18.40	19.64	18.81	20.00	20.40
	8H	17.94	19.12	18.36	19.51	19.91	18.49	19.68	18.92	20.06	20.46
	12H	17.94	19.07	18.37	19.45	19.88	18.56	19.69	18.99	20.07	20.50
4H	2H	16.31	17.65	16.71	17.99	18.37	16.40	17.74	16.80	18.09	18.47
	3H	17.95	19.06	18.36	19.46	19.86	18.27	19.38	18.68	19.78	20.18
	4H	18.46	19.47	18.89	19.88	20.32	18.90	19.90	19.33	20.32	20.76
	6H	18.77	19.64	19.22	20.08	20.54	19.32	20.19	19.77	20.63	21.09
	8H	18.82	19.64	19.28	20.08	20.55	19.45	20.26	19.91	20.71	21.17
	12H	18.85	19.58	19.33	20.05	20.52	19.55	20.28	20.03	20.76	21.23
8H	4H	18.69	19.51	19.15	19.95	20.42	19.08	19.90	19.55	20.34	20.81
	6H	19.06	19.74	19.56	20.23	20.70	19.58	20.26	20.08	20.75	21.23
	8H	19.15	19.76	19.66	20.26	20.75	19.77	20.37	20.28	20.88	21.37
	12H	19.20	19.74	19.71	20.23	20.79	19.93	20.47	20.44	20.96	21.52
12H	4H	18.70	19.43	19.18	19.91	20.38	19.08	19.82	19.57	20.29	20.76
	6H	19.08	19.69	19.59	20.20	20.69	19.59	20.20	20.10	20.70	21.19
	8H	19.21	19.75	19.72	20.24	20.80	19.82	20.36	20.33	20.85	21.41