

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: P1498268

Luminaire Tested: MAE-G-2-120-1STD-LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498268
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-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

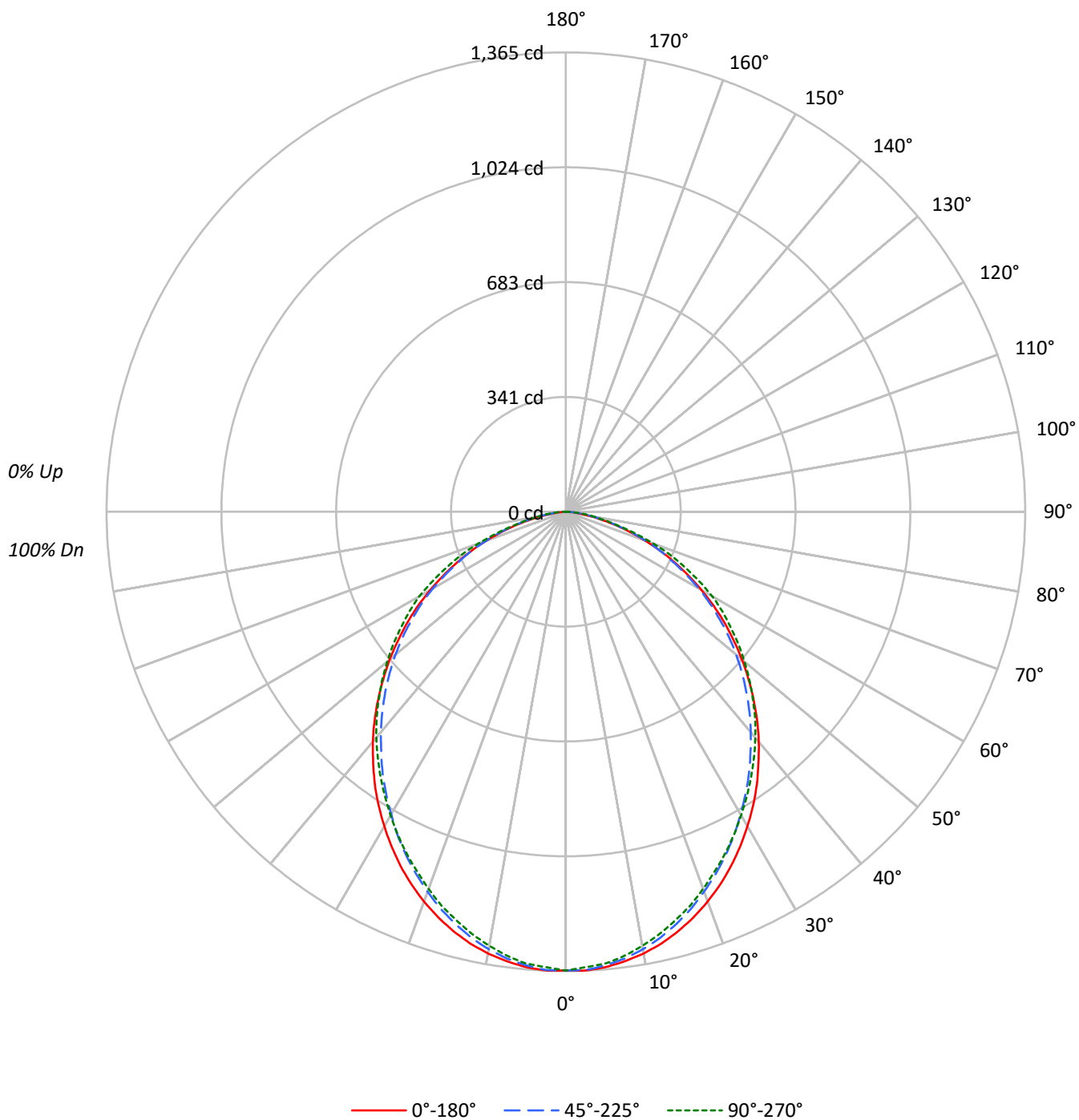
Lumens per Lamp: N/A
Luminaire Lumens: 3281.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	85	79	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3668	3668	3668
5°	3669	3655	3640
10°	3641	3607	3579
15°	3594	3532	3502
20°	3529	3440	3415
25°	3449	3339	3325
30°	3352	3225	3237
35°	3251	3117	3154
40°	3133	3003	3078
45°	3002	2889	2990
50°	2862	2767	2901
55°	2701	2622	2800
60°	2502	2455	2706
65°	2273	2232	2488
70°	1969	1991	2177
75°	1567	1665	1724
80°	1079	1244	1306
85°	599	923	1173

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3002 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.9
10°-20°	357.7	10.9
20°-30°	521.0	15.9
30°-40°	601.2	18.3
40°-50°	596.5	18.2
50°-60°	511.6	15.6
60°-70°	359.2	10.9
70°-80°	170.3	5.2
80°-90°	35.4	1.1
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°	1006.8	30.7
0°-40°	1607.9	49.0
0°-60°	2716.0	82.8
0°-90°	3281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1358	1357	1353	1345	1348	129
15°	1290	1284	1268	1254	1257	364
25°	1162	1147	1124	1115	1120	535
35°	990	970	949	951	960	618
45°	789	772	759	775	786	608
55°	576	560	559	582	597	514
65°	357	345	350	379	391	353
75°	151	146	160	167	166	163
85°	19	23	30	36	38	28
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.0	1363.0	1363.0	1363.0	1363.0
2.5°	1364.6	1365.6	1363.0	1353.2	1354.5
5°	1358.1	1356.8	1353.2	1344.8	1347.7
7.5°	1347.2	1345.5	1339.0	1329.3	1331.2
10°	1332.6	1329.3	1320.0	1307.9	1309.8
12.5°	1313.9	1309.6	1296.5	1283.3	1285.5
15°	1290.2	1284.1	1267.8	1254.4	1256.9
17.5°	1263.2	1256.6	1237.0	1222.7	1227.4
20°	1232.5	1223.3	1201.2	1188.0	1192.6
22.5°	1198.8	1187.1	1164.2	1152.1	1156.2
25°	1161.7	1147.4	1124.5	1115.2	1120.0
27.5°	1121.6	1106.0	1083.1	1075.1	1081.8
30°	1078.9	1062.4	1037.8	1034.3	1041.6
32.5°	1035.4	1017.8	993.8	993.9	1001.2
35°	989.5	970.2	948.9	951.2	960.1
37.5°	940.4	922.1	901.4	909.8	918.4
40°	891.9	872.9	854.8	866.2	876.1
42.5°	841.5	823.5	807.6	820.9	832.5
45°	788.8	772.1	759.1	774.8	785.8
47.5°	736.1	719.4	710.4	727.6	740.3
50°	683.7	668.1	660.9	680.3	692.9
52.5°	629.1	614.1	610.9	631.0	646.0
55°	575.8	560.4	558.8	581.5	596.9
57.5°	520.8	509.0	508.1	533.1	551.7
60°	464.9	453.1	456.2	485.6	502.7
62.5°	410.6	398.8	402.5	435.2	446.5
65°	357.0	345.2	350.5	378.6	390.8
67.5°	304.3	293.2	302.8	328.2	336.0
70°	250.2	240.4	253.0	273.7	276.7
72.5°	199.8	191.4	206.5	219.5	219.3
75°	150.7	145.8	160.1	167.2	165.8
77.5°	107.7	105.1	117.4	121.2	119.9
80°	69.6	71.2	80.3	82.7	84.3
82.5°	40.5	43.7	50.6	58.0	59.7
85°	19.4	23.3	29.9	35.7	38.0
87.5°	6.8	9.4	12.3	13.6	13.2
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	15.29	16.87	15.65	17.19	17.50	15.64	17.22	16.00	17.53	17.85
	3H	16.73	18.15	17.10	18.48	18.84	17.23	18.65	17.61	18.98	19.34
	4H	17.15	18.49	17.55	18.83	19.21	17.69	19.02	18.08	19.37	19.75
	6H	17.36	18.60	17.77	18.96	19.35	17.93	19.17	18.34	19.53	19.92
	8H	17.39	18.57	17.82	18.96	19.36	18.00	19.18	18.42	19.57	19.97
	12H	17.40	18.53	17.83	18.91	19.34	18.05	19.17	18.47	19.56	19.98
4H	2H	15.82	17.16	16.22	17.51	17.88	16.11	17.44	16.50	17.79	18.17
	3H	17.44	18.55	17.85	18.95	19.35	17.90	19.01	18.31	19.41	19.81
	4H	17.95	18.95	18.38	19.36	19.80	18.46	19.46	18.89	19.88	20.32
	6H	18.24	19.11	18.69	19.55	20.01	18.80	19.67	19.26	20.11	20.57
	8H	18.29	19.10	18.75	19.55	20.01	18.90	19.71	19.36	20.16	20.62
	12H	18.31	19.04	18.79	19.52	19.99	18.98	19.71	19.46	20.18	20.65
8H	4H	18.16	18.98	18.62	19.42	19.89	18.63	19.44	19.09	19.89	20.35
	6H	18.52	19.19	19.01	19.68	20.16	19.04	19.71	19.54	20.20	20.68
	8H	18.60	19.20	19.11	19.71	20.20	19.18	19.79	19.70	20.30	20.78
	12H	18.65	19.18	19.16	19.67	20.24	19.31	19.85	19.82	20.34	20.90
12H	4H	18.17	18.90	18.65	19.38	19.85	18.63	19.36	19.11	19.83	20.30
	6H	18.53	19.14	19.04	19.64	20.13	19.04	19.65	19.55	20.15	20.64
	8H	18.65	19.18	19.16	19.68	20.24	19.23	19.76	19.74	20.25	20.81