

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: P1499090

Luminaire Tested: MAE-G-4-120-1STD-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499090
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-4-120-1STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

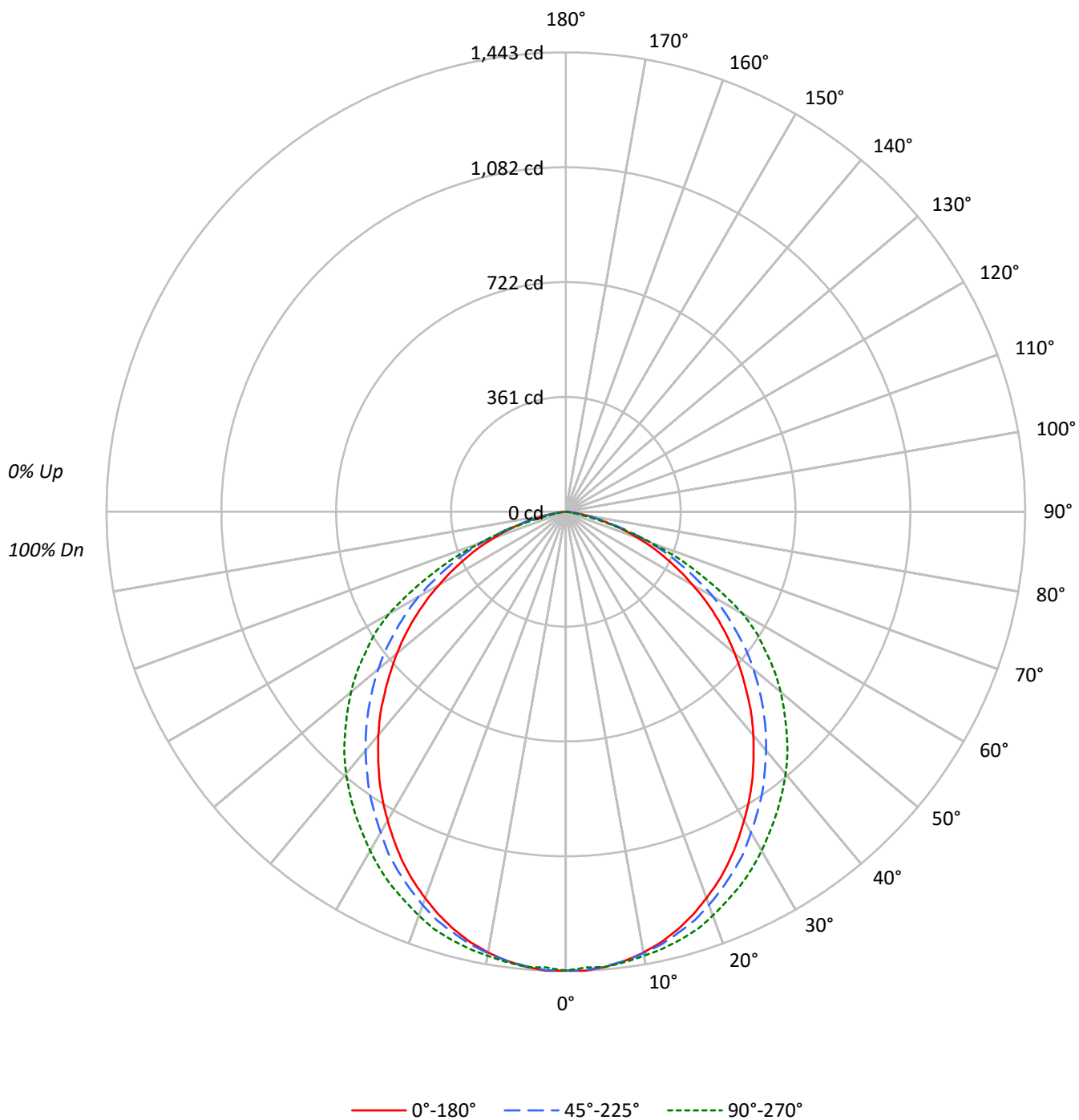
Lumens per Lamp: N/A
Luminaire Lumens: 3628.0 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.27 / 1.32
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.1
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	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	100	93	86	81	98	91	85	80	87	83	78		84	80	77		81
3	92	82	74	68	90	80	73	67	77	71	66		75	70	65		72
4	84	73	65	58	82	72	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		55	48	43		53
7	67	54	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	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1939	1939	1939
5°	1938	1935	1938
10°	1921	1924	1935
15°	1892	1906	1938
20°	1850	1882	1933
25°	1801	1850	1924
30°	1740	1807	1910
35°	1679	1768	1897
40°	1610	1719	1887
45°	1531	1669	1866
50°	1450	1610	1845
55°	1357	1532	1800
60°	1239	1440	1730
65°	1109	1287	1485
70°	946	1085	1134
75°	733	787	636
80°	482	418	225
85°	256	191	128

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 1866 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	3.8
10°-20°	386.8	10.7
20°-30°	575.1	15.9
30°-40°	676.1	18.6
40°-50°	682.4	18.8
50°-60°	592.5	16.3
60°-70°	403.2	11.1
70°-80°	157.1	4.3
80°-90°	18.8	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°	1097.9	30.3
0°-40°	1774.0	48.9
0°-60°	3048.8	84.0
0°-90°	3628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1435	1433	1433	1433	1435	136
15°	1358	1360	1368	1383	1391	382
25°	1213	1219	1246	1277	1296	558
35°	1022	1035	1076	1126	1155	638
45°	804	825	877	946	981	621
55°	578	597	653	728	767	517
65°	348	365	404	448	466	346
75°	141	149	151	137	122	153
85°	17	17	12	10	8	24
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1441.1	1441.1	1441.1	1441.1	1441.1
2.5°	1443.1	1443.1	1441.1	1434.8	1432.8
5°	1434.8	1432.8	1432.8	1432.8	1434.8
7.5°	1422.4	1422.4	1422.4	1424.5	1426.6
10°	1405.8	1405.8	1407.9	1412.0	1416.2
12.5°	1385.1	1387.2	1391.3	1399.6	1405.8
15°	1358.1	1360.2	1368.5	1383.0	1391.3
17.5°	1327.0	1333.2	1345.7	1362.3	1374.7
20°	1291.8	1298.0	1314.6	1335.3	1349.8
22.5°	1254.5	1260.7	1281.4	1306.3	1322.9
25°	1213.0	1219.2	1246.2	1277.3	1295.9
27.5°	1167.4	1175.7	1208.8	1242.0	1264.8
30°	1119.7	1130.0	1163.2	1204.7	1229.6
32.5°	1072.0	1084.4	1119.7	1167.4	1192.3
35°	1022.2	1034.7	1076.1	1125.9	1154.9
37.5°	968.3	982.8	1026.4	1086.5	1115.5
40°	916.5	931.0	978.7	1043.0	1074.1
42.5°	862.6	879.2	928.9	995.3	1030.5
45°	804.5	825.2	877.1	945.5	980.8
47.5°	748.5	767.2	823.2	893.7	931.0
50°	692.5	713.3	769.3	841.8	881.2
52.5°	636.6	655.2	713.3	785.8	827.3
55°	578.5	597.2	653.1	727.8	767.2
57.5°	520.4	543.3	595.1	667.7	711.2
60°	460.3	481.0	535.0	607.5	642.8
62.5°	404.3	423.0	468.6	537.0	553.6
65°	348.3	364.9	404.3	447.9	466.5
67.5°	296.5	308.9	344.2	373.2	381.5
70°	240.5	253.0	275.8	292.4	288.2
72.5°	190.8	199.1	213.6	211.5	201.1
75°	141.0	149.3	151.4	136.8	122.3
77.5°	99.5	103.7	97.5	76.7	62.2
80°	62.2	64.3	53.9	33.2	29.0
82.5°	35.2	35.2	24.9	20.7	16.6
85°	16.6	16.6	12.4	10.4	8.3
87.5°	6.2	6.2	4.1	4.1	4.1
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	12.90	14.48	13.27	14.80	15.11	14.48	16.06	14.85	16.38	16.69
	3H	14.24	15.66	14.62	15.99	16.35	15.75	17.17	16.13	17.50	17.86
	4H	14.61	15.94	15.01	16.29	16.66	15.95	17.28	16.35	17.63	18.00
	6H	14.77	16.00	15.18	16.37	16.76	15.95	17.17	16.36	17.54	17.93
	8H	14.79	15.96	15.21	16.35	16.75	15.92	17.09	16.35	17.48	17.88
	12H	14.78	15.90	15.21	16.28	16.71	15.89	17.01	16.32	17.39	17.82
4H	2H	13.57	14.90	13.97	15.25	15.62	14.86	16.19	15.26	16.54	16.92
	3H	15.07	16.17	15.48	16.57	16.97	16.30	17.40	16.71	17.80	18.20
	4H	15.51	16.50	15.94	16.91	17.35	16.55	17.54	16.98	17.96	18.39
	6H	15.74	16.59	16.19	17.04	17.49	16.58	17.44	17.04	17.88	18.34
	8H	15.76	16.56	16.22	17.00	17.47	16.55	17.35	17.01	17.80	18.26
	12H	15.76	16.48	16.24	16.96	17.43	16.53	17.25	17.01	17.72	18.19
8H	4H	15.67	16.47	16.13	16.91	17.38	16.64	17.44	17.10	17.88	18.35
	6H	15.93	16.59	16.42	17.08	17.55	16.67	17.33	17.16	17.82	18.29
	8H	15.97	16.56	16.48	17.07	17.55	16.64	17.23	17.16	17.74	18.23
	12H	15.99	16.51	16.50	17.00	17.56	16.63	17.15	17.14	17.64	18.20
12H	4H	15.65	16.36	16.13	16.84	17.31	16.62	17.34	17.10	17.81	18.28
	6H	15.90	16.49	16.41	17.00	17.49	16.64	17.23	17.16	17.74	18.23
	8H	15.97	16.49	16.48	16.98	17.54	16.64	17.16	17.15	17.65	18.22