

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: P1498202

Luminaire Tested: MAE-G-2-120-1LO-STD-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498202
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-2-120-1LO-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

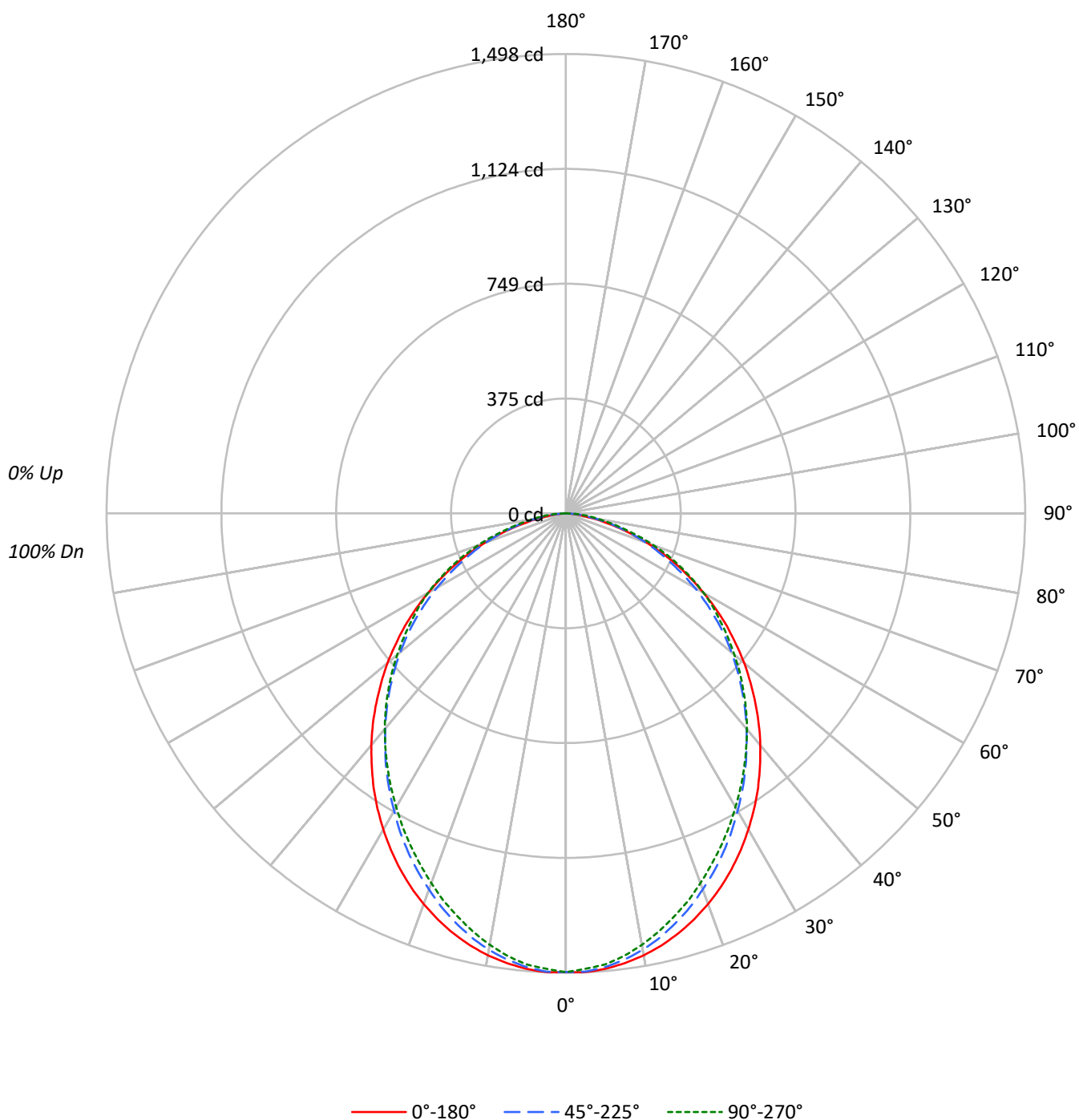
Lumens per Lamp: N/A
Luminaire Lumens: 3555.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	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	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4025	4025	4025
5°	4027	4011	3988
10°	3999	3949	3903
15°	3950	3854	3793
20°	3883	3738	3674
25°	3799	3616	3554
30°	3699	3480	3437
35°	3590	3352	3329
40°	3465	3220	3228
45°	3327	3089	3118
50°	3178	2951	3004
55°	3005	2793	2889
60°	2795	2612	2796
65°	2548	2387	2633
70°	2216	2166	2399
75°	1775	1880	2051
80°	1234	1505	1703
85°	692	1183	1572

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.3	3.9
10°-20°	390.1	11.0
20°-30°	564.9	15.9
30°-40°	648.1	18.2
40°-50°	639.7	18.0
50°-60°	546.6	15.4
60°-70°	387.5	10.9
70°-80°	193.6	5.4
80°-90°	44.2	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°	1095.3	30.8
0°-40°	1743.4	49.0
0°-60°	2929.7	82.4
0°-90°	3555.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3555.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1491	1490	1485	1473	1476	141
15°	1418	1409	1383	1360	1361	400
25°	1279	1258	1218	1196	1197	589
35°	1093	1062	1020	1009	1014	683
45°	874	845	812	814	819	674
55°	641	614	595	606	616	572
65°	400	379	375	402	414	396
75°	171	161	181	195	197	184
85°	22	28	38	47	51	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1497.5	1498.9	1495.8	1484.1	1486.5
5°	1490.9	1489.7	1484.7	1472.8	1476.3
7.5°	1479.0	1476.7	1467.7	1453.3	1455.5
10°	1463.5	1458.8	1445.1	1427.0	1428.5
12.5°	1443.2	1436.6	1417.1	1396.0	1397.4
15°	1417.9	1408.6	1383.3	1360.4	1361.4
17.5°	1388.8	1377.7	1346.8	1321.8	1324.9
20°	1355.9	1341.2	1305.3	1281.0	1283.1
22.5°	1319.5	1301.3	1263.2	1239.0	1239.9
25°	1279.4	1257.5	1217.7	1195.6	1196.9
27.5°	1236.3	1212.0	1170.3	1149.5	1152.3
30°	1190.3	1163.9	1120.0	1103.1	1106.2
32.5°	1142.8	1114.6	1070.9	1057.2	1060.3
35°	1092.8	1062.3	1020.3	1009.2	1013.5
37.5°	1039.5	1009.7	968.0	962.6	966.3
40°	986.5	955.8	916.5	913.9	918.9
42.5°	931.4	901.3	864.7	864.2	870.2
45°	874.2	844.8	811.7	813.7	819.3
47.5°	816.4	787.6	758.9	762.6	769.7
50°	759.2	731.2	705.0	711.4	717.5
52.5°	698.7	672.2	651.0	658.2	667.4
55°	640.6	613.7	595.4	605.6	615.8
57.5°	580.3	557.2	540.9	555.0	568.6
60°	519.4	496.7	485.4	505.8	519.6
62.5°	459.3	437.3	429.4	455.5	466.6
65°	400.2	378.9	374.9	401.7	413.5
67.5°	341.3	322.0	325.2	352.7	361.2
70°	281.6	264.3	275.3	299.6	304.9
72.5°	225.3	210.9	228.0	247.0	249.5
75°	170.7	161.4	180.8	195.2	197.3
77.5°	122.3	117.5	136.6	147.8	150.3
80°	79.6	81.3	97.1	106.5	109.9
82.5°	46.6	51.1	63.7	75.4	78.9
85°	22.4	27.9	38.3	47.1	50.9
87.5°	7.7	11.4	16.1	17.9	17.4
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	15.66	17.25	16.03	17.56	17.87	15.62	17.21	15.99	17.52	17.84
	3H	17.13	18.55	17.50	18.88	19.24	17.33	18.76	17.71	19.08	19.45
	4H	17.56	18.90	17.96	19.25	19.63	17.89	19.23	18.29	19.58	19.95
	6H	17.79	19.03	18.20	19.39	19.79	18.25	19.49	18.66	19.85	20.24
	8H	17.83	19.01	18.25	19.40	19.80	18.36	19.54	18.78	19.93	20.33
	12H	17.83	18.97	18.26	19.35	19.78	18.44	19.57	18.87	19.95	20.38
4H	2H	16.16	17.50	16.56	17.85	18.22	16.13	17.47	16.53	17.81	18.19
	3H	17.81	18.93	18.22	19.33	19.73	18.04	19.16	18.45	19.56	19.96
	4H	18.33	19.34	18.77	19.75	20.19	18.72	19.73	19.15	20.14	20.58
	6H	18.65	19.52	19.10	19.96	20.42	19.19	20.07	19.65	20.51	20.97
	8H	18.70	19.52	19.17	19.97	20.43	19.34	20.16	19.81	20.61	21.07
	12H	18.73	19.46	19.21	19.94	20.41	19.47	20.20	19.95	20.68	21.15
8H	4H	18.57	19.39	19.03	19.83	20.30	18.92	19.74	19.38	20.18	20.65
	6H	18.95	19.63	19.45	20.12	20.59	19.48	20.16	19.97	20.65	21.12
	8H	19.04	19.65	19.56	20.16	20.65	19.69	20.30	20.21	20.81	21.30
	12H	19.10	19.64	19.61	20.13	20.69	19.88	20.42	20.39	20.91	21.47
12H	4H	18.59	19.32	19.07	19.80	20.27	18.92	19.65	19.40	20.13	20.60
	6H	18.98	19.59	19.49	20.10	20.58	19.49	20.10	20.00	20.61	21.09
	8H	19.12	19.65	19.62	20.14	20.71	19.75	20.29	20.26	20.78	21.34