

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: P1498589

Luminaire Tested: MAE-G-2-120-2STD-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498589
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-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

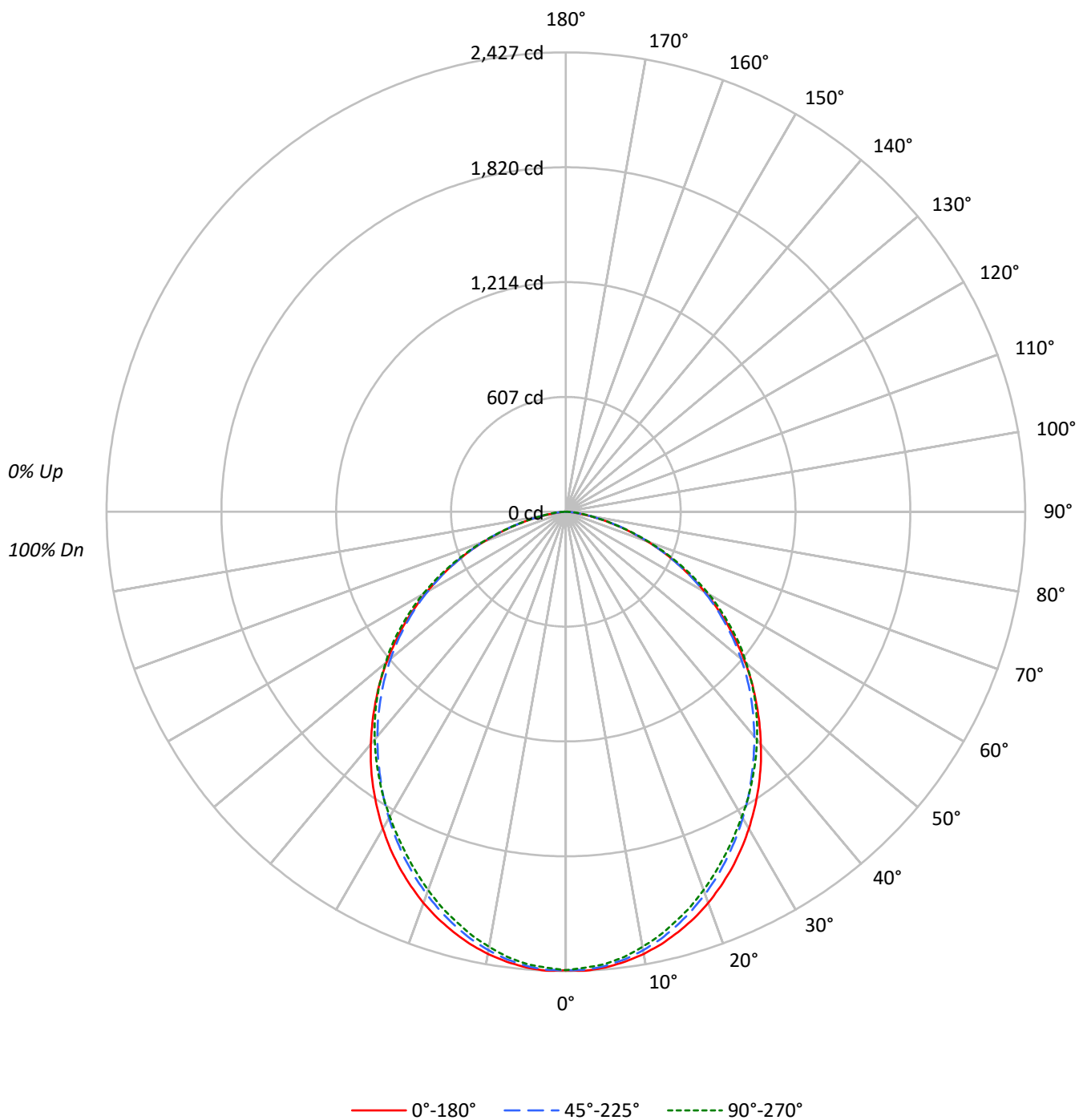
Lumens per Lamp: N/A
Luminaire Lumens: 5892.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	101	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	57		67	61	56		64
5	78	65	56	50	75	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	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6518	6518	6518
5°	6527	6506	6477
10°	6482	6428	6379
15°	6402	6306	6244
20°	6298	6156	6092
25°	6165	5989	5926
30°	6009	5808	5778
35°	5832	5619	5649
40°	5630	5441	5519
45°	5412	5259	5382
50°	5175	5061	5209
55°	4902	4828	4994
60°	4573	4538	4709
65°	4159	4152	4273
70°	3592	3629	3685
75°	2862	2946	2920
80°	1940	2053	2069
85°	1000	1380	1766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5412 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.8	3.9
10°-20°	637.7	10.8
20°-30°	932.2	15.8
30°-40°	1080.9	18.3
40°-50°	1078.7	18.3
50°-60°	929.1	15.8
60°-70°	648.6	11.0
70°-80°	300.3	5.1
80°-90°	56.6	1.0
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°	1797.7	30.5
0°-40°	2878.6	48.9
0°-60°	4886.5	82.9
0°-90°	5892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2422	2422	2422	2422	2422	
5°	2416	2408	2408	2394	2398	229
15°	2298	2282	2264	2240	2241	648
25°	2076	2052	2017	1993	1996	956
35°	1775	1744	1710	1709	1720	1110
45°	1422	1395	1382	1400	1414	1097
55°	1045	1023	1029	1054	1064	933
65°	653	643	652	664	671	646
75°	275	272	283	282	281	296
85°	32	36	45	53	57	48
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	2427.0	2419.1	2422.1	2411.3	2410.8
5°	2416.4	2407.7	2408.4	2394.4	2397.6
7.5°	2397.8	2387.7	2384.8	2368.8	2371.8
10°	2372.1	2359.6	2352.5	2332.9	2334.4
12.5°	2339.0	2324.8	2312.6	2289.9	2292.4
15°	2298.0	2282.0	2263.7	2239.8	2241.2
17.5°	2252.7	2235.3	2209.7	2184.3	2188.3
20°	2199.2	2180.0	2149.8	2123.4	2127.5
22.5°	2139.9	2118.1	2086.6	2060.3	2062.5
25°	2076.5	2052.3	2017.2	1993.4	1996.0
27.5°	2007.7	1980.8	1944.9	1923.4	1928.1
30°	1933.8	1905.5	1869.1	1853.0	1859.6
32.5°	1855.9	1826.9	1791.5	1782.7	1792.5
35°	1775.3	1744.3	1710.5	1708.7	1719.7
37.5°	1691.3	1660.9	1630.3	1635.5	1646.9
40°	1602.7	1573.9	1548.8	1558.7	1571.1
42.5°	1513.3	1485.7	1466.3	1481.0	1494.4
45°	1422.2	1394.8	1381.9	1399.9	1414.2
47.5°	1331.5	1303.9	1296.9	1317.9	1330.7
50°	1236.2	1211.5	1209.0	1231.9	1244.3
52.5°	1139.8	1117.0	1119.9	1144.4	1159.9
55°	1044.8	1023.4	1029.1	1053.5	1064.4
57.5°	947.1	930.0	937.8	959.6	970.5
60°	849.7	834.0	843.2	864.2	875.0
62.5°	751.3	737.6	748.4	766.3	773.4
65°	653.1	642.6	652.1	663.9	671.0
67.5°	556.4	546.6	557.2	568.7	571.4
70°	456.5	450.2	461.2	468.2	468.4
72.5°	364.6	358.5	369.2	372.2	370.5
75°	275.3	272.1	283.3	281.6	280.8
77.5°	194.3	195.6	201.8	200.5	200.3
80°	125.2	129.6	132.5	134.3	133.5
82.5°	70.4	74.5	78.8	88.2	92.0
85°	32.4	36.4	44.7	53.4	57.2
87.5°	11.0	14.1	18.8	20.2	19.2
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	17.44	19.02	17.80	19.34	19.65	17.65	19.23	18.02	19.55	19.86
	3H	18.91	20.33	19.28	20.66	21.02	19.12	20.55	19.50	20.87	21.23
	4H	19.33	20.67	19.73	21.02	21.39	19.54	20.88	19.94	21.23	21.60
	6H	19.54	20.78	19.95	21.14	21.53	19.75	20.99	20.17	21.36	21.75
	8H	19.57	20.75	19.99	21.13	21.53	19.80	20.98	20.23	21.37	21.77
	12H	19.57	20.69	19.99	21.08	21.50	19.83	20.96	20.26	21.34	21.77
4H	2H	18.00	19.33	18.40	19.68	20.06	18.17	19.51	18.57	19.85	20.23
	3H	19.64	20.75	20.05	21.15	21.55	19.83	20.94	20.24	21.34	21.74
	4H	20.15	21.15	20.58	21.57	22.00	20.34	21.34	20.77	21.75	22.19
	6H	20.44	21.31	20.89	21.75	22.21	20.63	21.50	21.09	21.94	22.40
	8H	20.48	21.29	20.94	21.74	22.20	20.70	21.51	21.16	21.96	22.42
	12H	20.49	21.22	20.97	21.70	22.17	20.75	21.48	21.23	21.96	22.43
8H	4H	20.34	21.15	20.80	21.60	22.06	20.51	21.32	20.97	21.77	22.23
	6H	20.68	21.35	21.18	21.84	22.32	20.86	21.53	21.36	22.02	22.50
	8H	20.75	21.35	21.26	21.86	22.35	20.97	21.57	21.48	22.08	22.56
	12H	20.79	21.32	21.30	21.81	22.37	21.06	21.59	21.57	22.08	22.65
12H	4H	20.34	21.07	20.82	21.54	22.01	20.51	21.24	20.99	21.71	22.18
	6H	20.68	21.29	21.19	21.79	22.28	20.86	21.46	21.37	21.97	22.46
	8H	20.79	21.32	21.30	21.81	22.37	21.00	21.53	21.51	22.02	22.59

END OF REPORT