

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: P1498391

Luminaire Tested: MAE-G-2-120-2HI-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498391
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-2-120-2HI-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

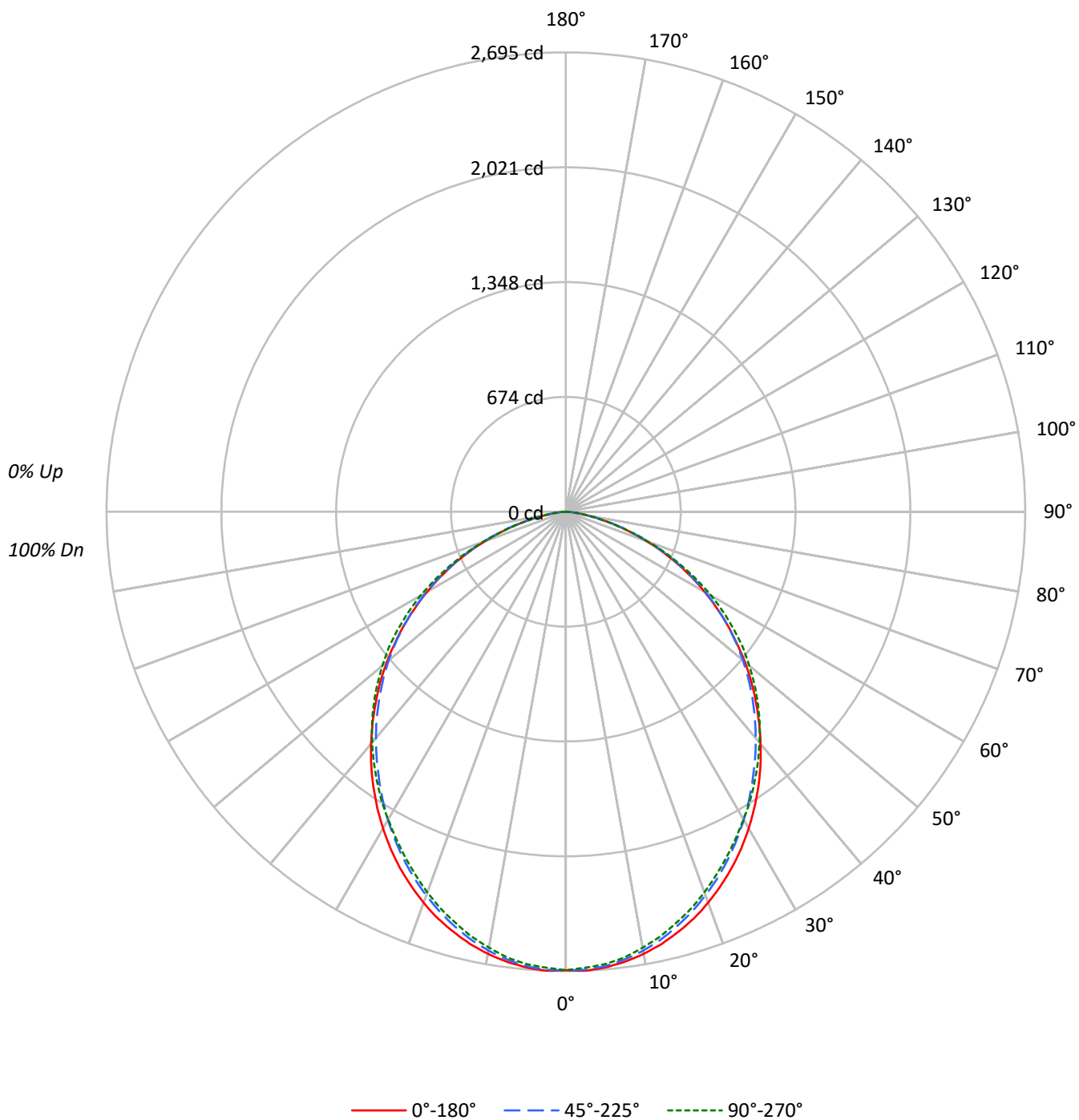
Lumens per Lamp: N/A
Luminaire Lumens: 6571.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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°	7237	7237	7237
5°	7247	7225	7196
10°	7196	7144	7097
15°	7107	7017	6960
20°	6990	6858	6805
25°	6842	6680	6631
30°	6666	6486	6477
35°	6469	6281	6344
40°	6243	6089	6209
45°	6000	5892	6066
50°	5735	5677	5881
55°	5431	5419	5641
60°	5064	5096	5308
65°	4601	4659	4780
70°	3969	4047	4070
75°	3158	3242	3147
80°	2129	2196	2135
85°	1084	1420	1785

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6066 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.0	3.9
10°-20°	709.5	10.8
20°-30°	1039.2	15.8
30°-40°	1207.3	18.4
40°-50°	1207.1	18.4
50°-60°	1041.0	15.8
60°-70°	724.6	11.0
70°-80°	329.8	5.0
80°-90°	59.5	0.9
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°	2001.7	30.5
0°-40°	3209.0	48.8
0°-60°	5457.1	83.0
0°-90°	6571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2689	2689	2689	2689	2689	
5°	2683	2673	2675	2661	2664	254
15°	2551	2534	2519	2496	2498	719
25°	2304	2281	2250	2229	2233	1061
35°	1969	1940	1912	1917	1931	1231
45°	1577	1552	1548	1575	1594	1216
55°	1158	1140	1155	1188	1202	1034
65°	723	716	732	743	751	715
75°	304	302	312	305	303	327
85°	35	39	46	54	58	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2689.2	2689.2	2689.2	2689.2	2689.2
2.5°	2694.9	2685.2	2689.2	2678.5	2677.1
5°	2683.0	2672.7	2674.8	2660.6	2663.8
7.5°	2662.3	2650.7	2649.3	2633.5	2636.8
10°	2633.6	2619.6	2614.4	2595.3	2597.1
12.5°	2596.8	2581.4	2571.5	2549.7	2553.0
15°	2551.1	2534.1	2518.6	2496.3	2498.3
17.5°	2500.6	2482.7	2460.1	2436.6	2441.6
20°	2441.0	2421.6	2394.9	2370.5	2376.2
22.5°	2374.9	2353.3	2325.8	2301.9	2305.5
25°	2304.4	2280.8	2249.9	2228.8	2233.3
27.5°	2227.7	2201.6	2170.6	2152.4	2159.1
30°	2145.4	2118.3	2087.3	2075.1	2084.4
32.5°	2058.7	2031.2	2001.5	1998.0	2011.2
35°	1969.1	1939.9	1912.1	1916.6	1931.3
37.5°	1876.0	1847.3	1823.6	1836.0	1851.3
40°	1777.1	1750.9	1733.5	1751.1	1767.5
42.5°	1677.9	1652.9	1642.0	1665.2	1682.8
45°	1576.6	1551.9	1548.3	1575.1	1594.0
47.5°	1476.2	1451.0	1453.8	1483.9	1500.7
50°	1369.9	1348.3	1356.0	1387.9	1404.7
52.5°	1263.3	1243.4	1256.5	1290.3	1310.2
55°	1157.5	1139.5	1155.1	1188.3	1202.3
57.5°	1048.9	1035.6	1052.8	1082.0	1095.4
60°	941.0	928.9	946.9	973.5	986.3
62.5°	831.8	821.7	840.4	861.6	868.9
65°	722.6	716.3	731.7	743.4	750.7
67.5°	615.5	609.1	624.0	634.0	636.0
70°	504.4	501.7	514.4	518.7	517.3
72.5°	402.6	399.1	409.3	408.5	405.0
75°	303.7	302.5	311.8	305.2	302.7
77.5°	213.8	216.8	219.5	213.7	211.7
80°	137.4	142.5	141.7	139.9	137.8
82.5°	77.0	80.8	82.2	90.6	93.9
85°	35.1	38.8	46.0	54.4	57.8
87.5°	11.8	14.9	19.2	20.5	19.4
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	17.80	19.39	18.17	19.70	20.01	18.11	19.69	18.47	20.00	20.32
	3H	19.26	20.69	19.64	21.01	21.37	19.54	20.97	19.92	21.29	21.65
	4H	19.68	21.02	20.08	21.37	21.75	19.93	21.27	20.33	21.62	21.99
	6H	19.89	21.12	20.30	21.49	21.88	20.11	21.35	20.53	21.72	22.11
	8H	19.91	21.09	20.34	21.48	21.88	20.15	21.33	20.57	21.72	22.12
	12H	19.91	21.04	20.34	21.42	21.85	20.17	21.30	20.60	21.68	22.11
4H	2H	18.37	19.71	18.77	20.06	20.43	18.62	19.96	19.02	20.30	20.68
	3H	20.01	21.12	20.42	21.52	21.92	20.24	21.35	20.65	21.75	22.15
	4H	20.51	21.51	20.94	21.93	22.36	20.71	21.71	21.15	22.13	22.57
	6H	20.79	21.66	21.25	22.10	22.56	20.97	21.84	21.43	22.28	22.74
	8H	20.83	21.65	21.30	22.09	22.56	21.03	21.84	21.49	22.28	22.75
	12H	20.85	21.57	21.33	22.05	22.52	21.07	21.79	21.55	22.27	22.74
8H	4H	20.69	21.51	21.16	21.95	22.42	20.88	21.69	21.34	22.13	22.60
	6H	21.03	21.70	21.52	22.19	22.67	21.19	21.86	21.68	22.35	22.82
	8H	21.10	21.70	21.61	22.20	22.69	21.27	21.87	21.78	22.38	22.87
	12H	21.13	21.66	21.64	22.15	22.71	21.35	21.88	21.86	22.37	22.93
12H	4H	20.69	21.42	21.17	21.90	22.37	20.88	21.60	21.36	22.08	22.55
	6H	21.03	21.63	21.54	22.14	22.62	21.18	21.78	21.69	22.29	22.78
	8H	21.13	21.65	21.63	22.15	22.71	21.30	21.83	21.81	22.32	22.89