

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: P1498106

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498106
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-2-120-1HI-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

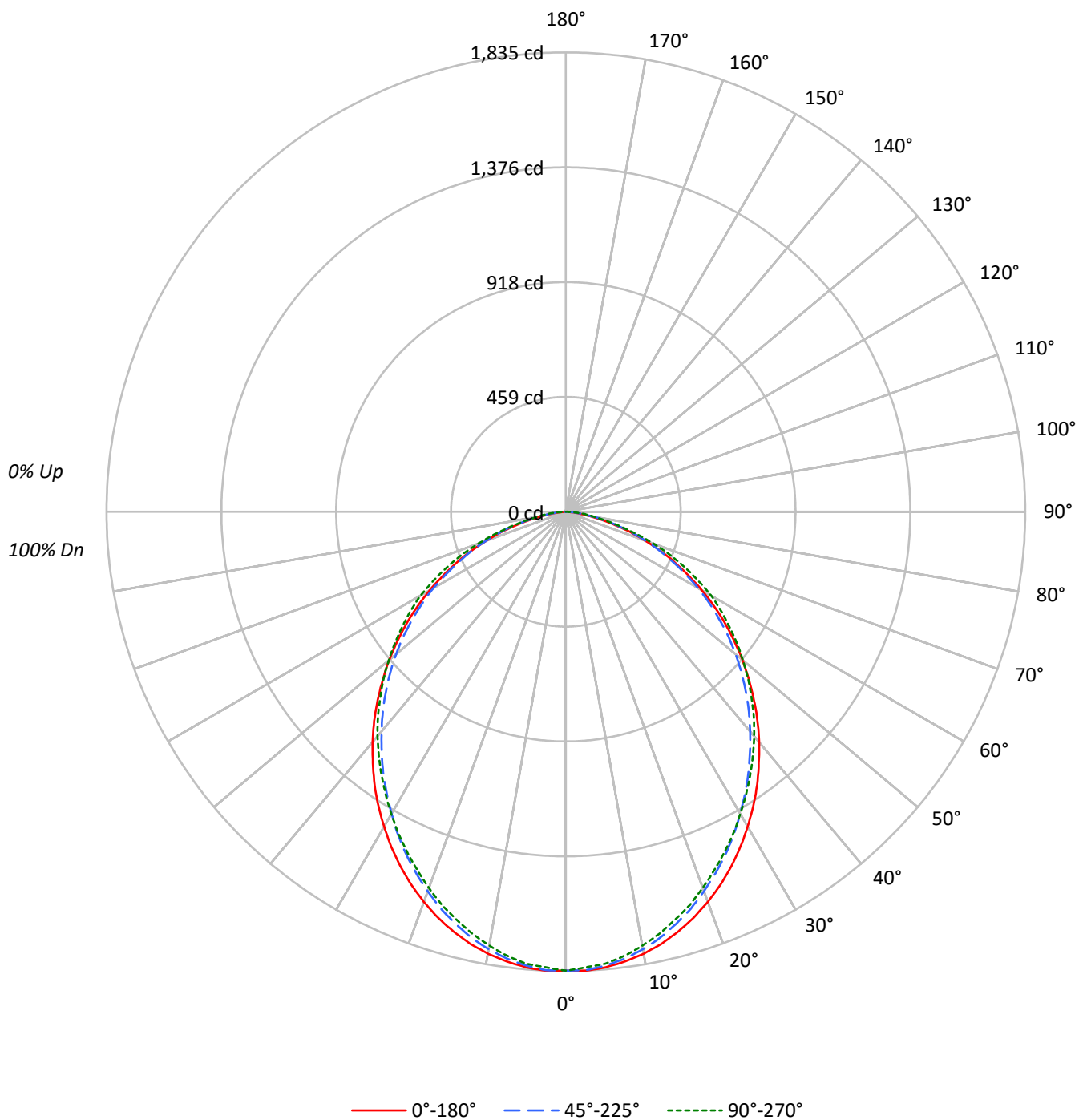
Lumens per Lamp: N/A
Luminaire Lumens: 4404.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.14 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 57.4
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	80	98	90	84	79	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		66	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	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	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4933	4933	4933
5°	4934	4916	4895
10°	4898	4849	4809
15°	4835	4746	4700
20°	4749	4619	4579
25°	4641	4481	4454
30°	4513	4326	4332
35°	4376	4179	4217
40°	4219	4024	4111
45°	4043	3870	3991
50°	3857	3705	3867
55°	3641	3510	3732
60°	3375	3286	3606
65°	3068	2989	3328
70°	2659	2674	2929
75°	2118	2249	2349
80°	1460	1700	1807
85°	812	1272	1633

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4043 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.1	3.9
10°-20°	480.6	10.9
20°-30°	699.4	15.9
30°-40°	806.3	18.3
40°-50°	799.4	18.2
50°-60°	685.2	15.6
60°-70°	481.9	10.9
70°-80°	230.3	5.2
80°-90°	48.7	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°	1352.2	30.7
0°-40°	2158.5	49.0
0°-60°	3643.1	82.7
0°-90°	4404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4404.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1833	1833	1833	1833	1833	
5°	1827	1825	1820	1808	1812	173
15°	1736	1727	1704	1684	1687	489
25°	1563	1543	1509	1494	1500	719
35°	1332	1304	1272	1273	1284	832
45°	1062	1038	1017	1035	1049	820
55°	776	753	748	776	795	693
65°	482	464	470	506	523	477
75°	204	196	216	227	226	220
85°	26	32	41	50	53	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1833.0	1833.0	1833.0	1833.0	1833.0
2.5°	1835.2	1836.6	1833.0	1819.8	1821.8
5°	1826.6	1825.0	1820.0	1808.1	1812.0
7.5°	1811.9	1809.6	1800.6	1786.6	1789.4
10°	1792.5	1787.8	1774.5	1757.4	1759.9
12.5°	1767.3	1761.2	1742.7	1723.6	1726.4
15°	1735.7	1726.9	1703.6	1684.1	1687.0
17.5°	1699.3	1689.7	1661.7	1640.6	1646.6
20°	1658.2	1645.0	1613.0	1593.5	1599.0
22.5°	1613.0	1596.3	1563.0	1544.7	1549.5
25°	1563.2	1542.8	1509.3	1494.5	1500.2
27.5°	1509.5	1487.1	1453.2	1440.2	1448.3
30°	1452.3	1428.4	1392.2	1385.0	1394.0
32.5°	1393.7	1368.3	1332.9	1330.4	1339.3
35°	1332.1	1304.4	1272.2	1272.7	1283.8
37.5°	1266.1	1239.7	1208.2	1216.9	1227.3
40°	1201.0	1173.6	1145.5	1157.9	1170.2
42.5°	1133.2	1107.1	1082.1	1097.1	1111.3
45°	1062.5	1037.9	1016.9	1035.0	1048.8
47.5°	991.6	967.2	951.5	971.7	987.5
50°	921.2	898.1	885.0	908.4	923.7
52.5°	847.7	825.5	817.9	842.1	861.0
55°	776.0	753.4	748.2	775.9	795.4
57.5°	702.1	684.3	680.1	711.3	735.0
60°	627.1	609.3	610.6	647.9	670.0
62.5°	553.9	536.3	539.0	581.2	596.1
65°	481.8	464.3	469.5	506.5	522.7
67.5°	410.7	394.3	405.8	440.0	450.5
70°	337.9	323.5	339.8	368.0	372.3
72.5°	269.9	257.4	278.0	296.5	296.6
75°	203.7	196.3	216.3	227.2	225.9
77.5°	145.6	141.8	159.4	165.7	164.9
80°	94.2	96.3	109.7	114.2	116.6
82.5°	54.9	59.4	69.6	80.3	82.8
85°	26.3	31.8	41.2	49.5	52.9
87.5°	9.1	12.8	17.1	18.9	18.4
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	16.33	17.91	16.69	18.22	18.54	16.62	18.20	16.98	18.51	18.83
	3H	17.77	19.19	18.15	19.52	19.88	18.22	19.65	18.60	19.98	20.34
	4H	18.19	19.53	18.59	19.88	20.25	18.70	20.03	19.10	20.38	20.76
	6H	18.41	19.64	18.82	20.01	20.40	18.96	20.20	19.37	20.56	20.95
	8H	18.44	19.62	18.87	20.01	20.41	19.03	20.21	19.46	20.60	21.00
	12H	18.44	19.57	18.87	19.95	20.38	19.08	20.21	19.51	20.59	21.02
4H	2H	16.85	18.19	17.25	18.54	18.92	17.09	18.43	17.49	18.78	19.15
	3H	18.48	19.59	18.89	19.99	20.39	18.90	20.01	19.31	20.41	20.81
	4H	18.99	19.99	19.42	20.40	20.84	19.48	20.48	19.91	20.90	21.34
	6H	19.28	20.15	19.74	20.59	21.05	19.84	20.71	20.29	21.15	21.61
	8H	19.33	20.15	19.80	20.59	21.06	19.94	20.76	20.41	21.20	21.67
	12H	19.35	20.08	19.84	20.56	21.03	20.03	20.76	20.51	21.24	21.71
8H	4H	19.20	20.02	19.67	20.46	20.93	19.65	20.47	20.12	20.91	21.38
	6H	19.56	20.24	20.06	20.73	21.20	20.09	20.76	20.58	21.25	21.73
	8H	19.65	20.25	20.16	20.76	21.25	20.24	20.84	20.75	21.35	21.84
	12H	19.70	20.23	20.21	20.72	21.29	20.38	20.91	20.89	21.40	21.97
12H	4H	19.21	19.94	19.69	20.42	20.89	19.65	20.38	20.13	20.86	21.33
	6H	19.58	20.18	20.09	20.69	21.18	20.09	20.69	20.60	21.20	21.69
	8H	19.70	20.24	20.21	20.73	21.29	20.29	20.82	20.79	21.31	21.87