

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: P1498325

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498325
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-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

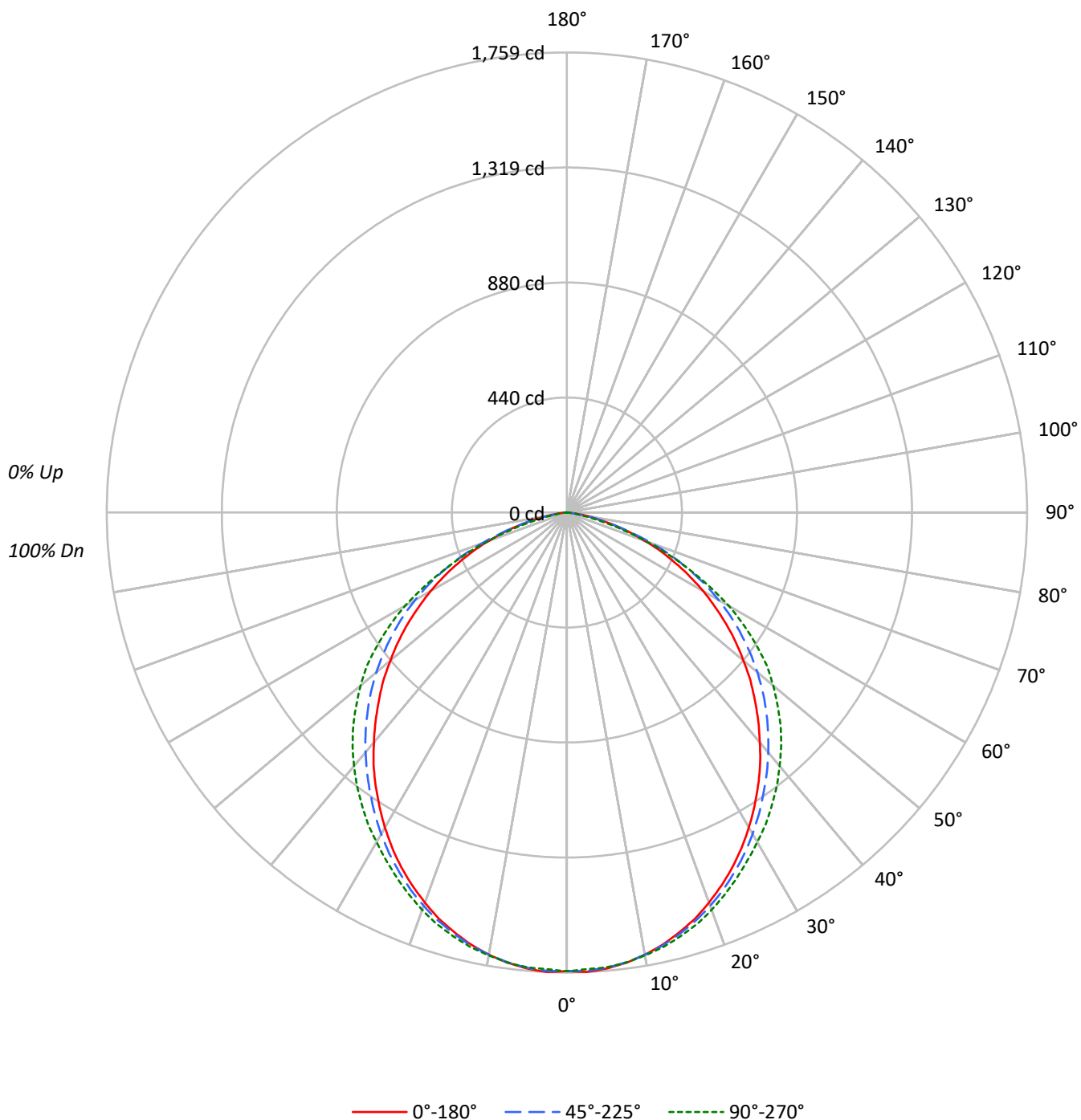
Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	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		54	48	43		53
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4719	4719	4719
5°	4728	4720	4715
10°	4691	4691	4698
15°	4629	4645	4673
20°	4546	4584	4632
25°	4445	4504	4571
30°	4323	4411	4523
35°	4187	4304	4488
40°	4031	4207	4445
45°	3867	4102	4397
50°	3687	3979	4308
55°	3484	3819	4146
60°	3237	3606	3849
65°	2920	3276	3295
70°	2493	2727	2548
75°	1957	1974	1592
80°	1272	1015	611
85°	590	386	312

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.6	3.7
10°-20°	469.8	10.6
20°-30°	697.9	15.8
30°-40°	822.0	18.6
40°-50°	832.8	18.8
50°-60°	724.9	16.4
60°-70°	493.9	11.2
70°-80°	197.4	4.5
80°-90°	22.6	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°	1333.3	30.1
0°-40°	2155.4	48.7
0°-60°	3713.0	83.9
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1750	1740	1747	1745	1746	166
15°	1662	1654	1667	1674	1678	468
25°	1497	1498	1517	1529	1540	689
35°	1274	1280	1310	1345	1366	797
45°	1016	1028	1078	1128	1155	784
55°	743	759	814	865	884	663
65°	459	480	514	515	518	454
75°	188	200	190	163	153	203
85°	19	17	12	11	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.8	1753.8	1753.8	1753.8	1753.8
2.5°	1758.6	1747.3	1753.8	1752.6	1747.8
5°	1750.2	1740.1	1747.3	1744.9	1745.5
7.5°	1736.5	1727.0	1734.8	1734.1	1736.0
10°	1716.9	1707.4	1716.9	1717.4	1719.3
12.5°	1692.4	1684.1	1695.4	1697.8	1702.0
15°	1661.5	1654.4	1667.4	1673.5	1677.5
17.5°	1628.2	1623.4	1636.5	1644.2	1650.8
20°	1587.6	1585.3	1600.8	1608.4	1617.4
22.5°	1543.5	1542.4	1560.9	1570.4	1579.4
25°	1497.1	1497.7	1516.8	1529.3	1539.5
27.5°	1445.9	1447.1	1470.4	1485.2	1497.7
30°	1391.1	1394.2	1419.7	1440.0	1455.5
32.5°	1333.3	1338.7	1366.1	1394.2	1413.8
35°	1274.4	1280.4	1310.2	1344.7	1366.1
37.5°	1213.7	1220.3	1254.8	1295.3	1317.9
40°	1147.6	1157.6	1197.6	1242.3	1265.4
42.5°	1082.6	1093.9	1138.7	1187.5	1212.5
45°	1016.0	1028.5	1077.9	1128.5	1155.3
47.5°	951.6	962.3	1015.3	1068.4	1092.2
50°	880.8	895.0	950.5	1003.5	1029.0
52.5°	812.9	826.6	883.2	937.3	963.6
55°	742.6	758.7	814.1	865.3	883.7
57.5°	671.8	690.2	743.8	786.1	802.1
60°	601.5	619.9	670.0	703.3	715.2
62.5°	530.6	549.7	593.8	614.0	616.4
65°	458.6	480.0	514.5	515.2	517.5
67.5°	390.1	407.9	432.9	425.8	422.2
70°	316.8	336.4	346.6	332.3	323.9
72.5°	251.9	266.1	264.4	243.5	233.5
75°	188.2	199.5	189.9	163.2	153.1
77.5°	130.4	139.9	120.8	95.8	85.8
80°	82.1	86.3	65.5	46.5	39.4
82.5°	44.1	43.4	28.0	23.2	21.5
85°	19.1	17.2	12.5	11.3	10.1
87.5°	6.6	5.9	4.7	4.2	3.6
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	16.31	17.89	16.67	18.20	18.52	17.27	18.85	17.63	19.16	19.48
	3H	17.73	19.15	18.10	19.47	19.84	18.46	19.88	18.84	20.21	20.57
	4H	18.12	19.45	18.52	19.80	20.18	18.67	20.01	19.07	20.35	20.73
	6H	18.29	19.53	18.71	19.89	20.28	18.69	19.92	19.10	20.29	20.68
	8H	18.31	19.48	18.73	19.87	20.27	18.67	19.84	19.09	20.23	20.63
	12H	18.30	19.42	18.73	19.80	20.23	18.64	19.76	19.07	20.15	20.57
4H	2H	16.97	18.30	17.37	18.65	19.03	17.74	19.07	18.14	19.42	19.80
	3H	18.55	19.65	18.96	20.05	20.45	19.09	20.20	19.50	20.59	20.99
	4H	19.02	20.01	19.45	20.43	20.87	19.36	20.35	19.79	20.77	21.20
	6H	19.26	20.12	19.72	20.56	21.02	19.41	20.27	19.87	20.71	21.17
	8H	19.28	20.09	19.75	20.53	21.00	19.39	20.19	19.85	20.63	21.10
	12H	19.28	20.00	19.76	20.48	20.95	19.37	20.08	19.85	20.56	21.03
8H	4H	19.16	19.96	19.62	20.40	20.87	19.47	20.28	19.94	20.72	21.19
	6H	19.43	20.09	19.93	20.58	21.06	19.53	20.19	20.03	20.68	21.16
	8H	19.47	20.06	19.98	20.57	21.06	19.51	20.10	20.02	20.61	21.10
	12H	19.48	20.00	19.99	20.50	21.06	19.50	20.02	20.00	20.51	21.07
12H	4H	19.14	19.86	19.62	20.33	20.80	19.46	20.18	19.94	20.66	21.13
	6H	19.40	20.00	19.92	20.50	20.99	19.51	20.10	20.02	20.61	21.10
	8H	19.47	19.99	19.98	20.48	21.04	19.51	20.03	20.02	20.52	21.09