

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: P1498313

Luminaire Tested: MAE-G-2-120-2HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498313
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-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

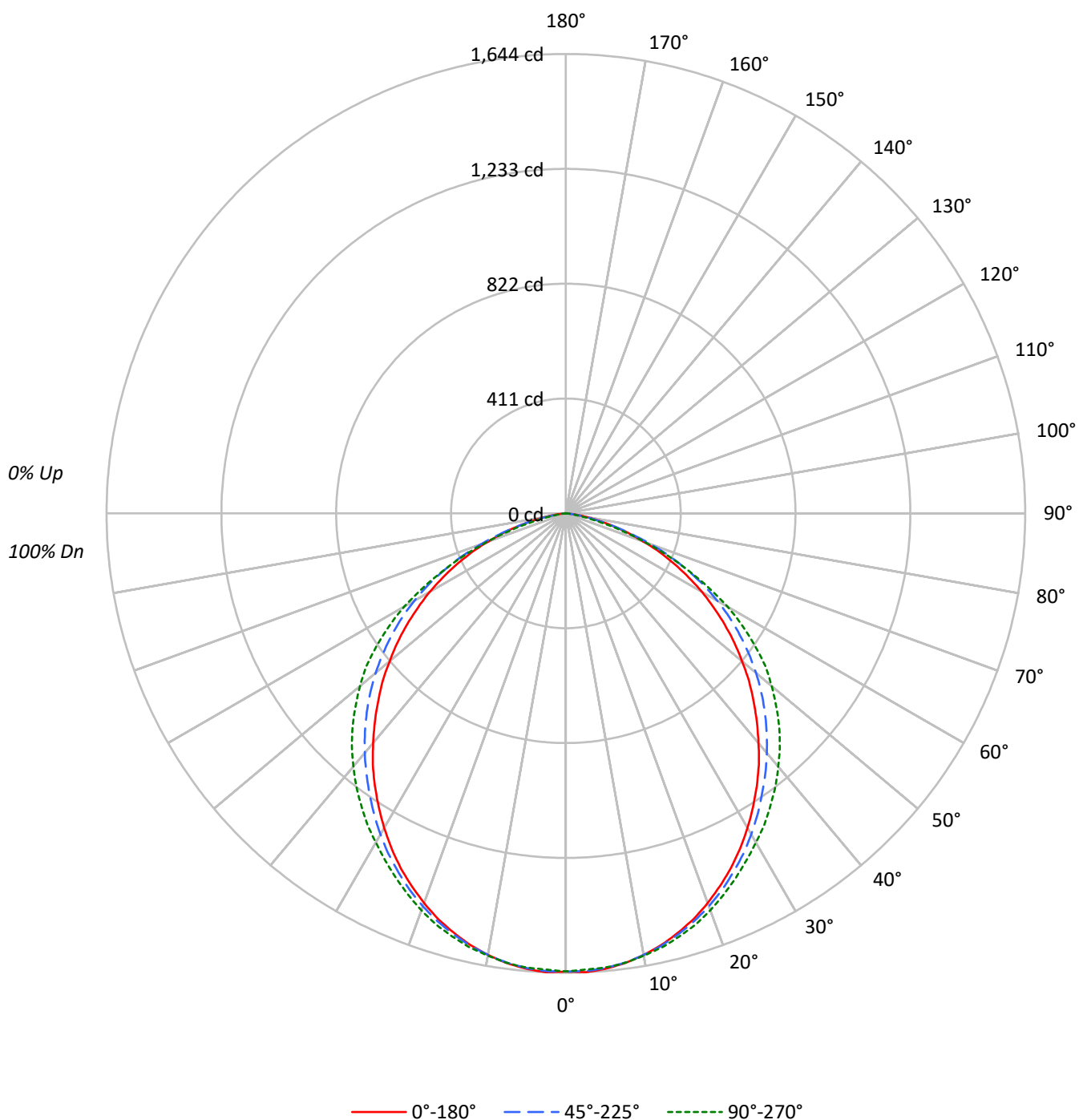
Lumens per Lamp: N/A
Luminaire Lumens: 4138.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4411	4411	4411
5°	4419	4412	4407
10°	4385	4385	4391
15°	4327	4342	4368
20°	4250	4285	4329
25°	4155	4210	4273
30°	4040	4123	4227
35°	3913	4023	4195
40°	3768	3933	4155
45°	3614	3834	4109
50°	3447	3719	4027
55°	3256	3570	3875
60°	3026	3370	3598
65°	2729	3062	3081
70°	2330	2548	2382
75°	1829	1845	1488
80°	1190	950	570
85°	550	361	293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4109 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.8	3.7
10°-20°	439.1	10.6
20°-30°	652.3	15.8
30°-40°	768.4	18.6
40°-50°	778.4	18.8
50°-60°	677.5	16.4
60°-70°	461.7	11.2
70°-80°	184.6	4.5
80°-90°	21.1	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°	1246.3	30.1
0°-40°	2014.7	48.7
0°-60°	3470.6	83.9
0°-90°	4138.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4138.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1639	1639	1639	1639	1639	
5°	1636	1626	1633	1631	1632	155
15°	1553	1546	1559	1564	1568	438
25°	1399	1400	1418	1430	1439	644
35°	1191	1197	1225	1257	1277	745
45°	950	961	1008	1055	1080	733
55°	694	709	761	809	826	620
65°	429	449	481	482	484	425
75°	176	186	178	153	143	189
85°	18	16	12	11	10	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1639.3	1639.3	1639.3	1639.3	1639.3
2.5°	1643.8	1633.2	1639.3	1638.2	1633.7
5°	1635.9	1626.5	1633.2	1631.0	1631.5
7.5°	1623.1	1614.3	1621.5	1620.9	1622.7
10°	1604.8	1596.0	1604.8	1605.3	1607.0
12.5°	1581.9	1574.2	1584.8	1587.0	1590.9
15°	1553.0	1546.4	1558.6	1564.2	1568.0
17.5°	1521.9	1517.5	1529.6	1536.9	1543.1
20°	1484.0	1481.8	1496.3	1503.4	1511.8
22.5°	1442.8	1441.7	1459.0	1467.9	1476.2
25°	1399.4	1400.0	1417.8	1429.5	1439.0
27.5°	1351.5	1352.6	1374.4	1388.3	1400.0
30°	1300.3	1303.1	1327.0	1346.0	1360.5
32.5°	1246.3	1251.3	1276.9	1303.1	1321.5
35°	1191.2	1196.8	1224.7	1256.9	1276.9
37.5°	1134.5	1140.6	1172.9	1210.7	1231.9
40°	1072.7	1082.1	1119.5	1161.2	1182.8
42.5°	1011.9	1022.5	1064.3	1110.0	1133.4
45°	949.7	961.4	1007.5	1054.9	1079.8
47.5°	889.5	899.5	949.1	998.6	1020.9
50°	823.3	836.6	888.4	938.0	961.9
52.5°	759.8	772.6	825.5	876.1	900.7
55°	694.1	709.2	760.9	808.8	826.0
57.5°	628.0	645.2	695.2	734.7	749.8
60°	562.3	579.5	626.2	657.4	668.6
62.5°	495.9	513.8	555.0	573.9	576.2
65°	428.6	448.7	480.9	481.5	483.8
67.5°	364.7	381.3	404.6	398.0	394.7
70°	296.1	314.5	323.9	310.7	302.8
72.5°	235.5	248.8	247.2	227.6	218.3
75°	175.9	186.5	177.5	152.6	143.1
77.5°	121.9	130.8	112.9	89.6	80.2
80°	76.8	80.7	61.3	43.4	36.8
82.5°	41.2	40.6	26.2	21.7	20.1
85°	17.8	16.1	11.7	10.6	9.5
87.5°	6.2	5.5	4.4	3.9	3.3
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	16.07	17.65	16.44	17.97	18.28	17.03	18.62	17.40	18.93	19.24
	3H	17.49	18.91	17.87	19.24	19.60	18.22	19.64	18.60	19.97	20.33
	4H	17.89	19.22	18.29	19.57	19.95	18.44	19.77	18.84	20.12	20.50
	6H	18.06	19.29	18.47	19.66	20.05	18.46	19.69	18.87	20.05	20.44
	8H	18.07	19.25	18.50	19.64	20.04	18.43	19.61	18.86	19.99	20.39
	12H	18.06	19.19	18.49	19.57	20.00	18.41	19.53	18.84	19.91	20.34
4H	2H	16.73	18.07	17.13	18.41	18.79	17.51	18.84	17.91	19.19	19.56
	3H	18.31	19.42	18.72	19.81	20.22	18.86	19.96	19.27	20.36	20.76
	4H	18.79	19.78	19.22	20.19	20.63	19.13	20.12	19.56	20.53	20.97
	6H	19.03	19.89	19.48	20.33	20.79	19.18	20.04	19.63	20.48	20.94
	8H	19.05	19.85	19.51	20.30	20.76	19.15	19.96	19.61	20.40	20.87
	12H	19.05	19.77	19.53	20.24	20.71	19.13	19.85	19.61	20.33	20.80
8H	4H	18.92	19.73	19.39	20.17	20.64	19.24	20.04	19.70	20.49	20.95
	6H	19.20	19.86	19.70	20.35	20.83	19.30	19.96	19.80	20.45	20.93
	8H	19.24	19.83	19.75	20.34	20.83	19.28	19.87	19.79	20.38	20.86
	12H	19.25	19.77	19.76	20.26	20.83	19.26	19.78	19.77	20.27	20.84
12H	4H	18.91	19.62	19.39	20.10	20.57	19.23	19.95	19.71	20.42	20.89
	6H	19.17	19.76	19.68	20.27	20.76	19.28	19.87	19.79	20.38	20.86
	8H	19.23	19.75	19.74	20.25	20.81	19.28	19.80	19.78	20.29	20.85