

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: P1498298

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498298
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-2-120-1STD-STD-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

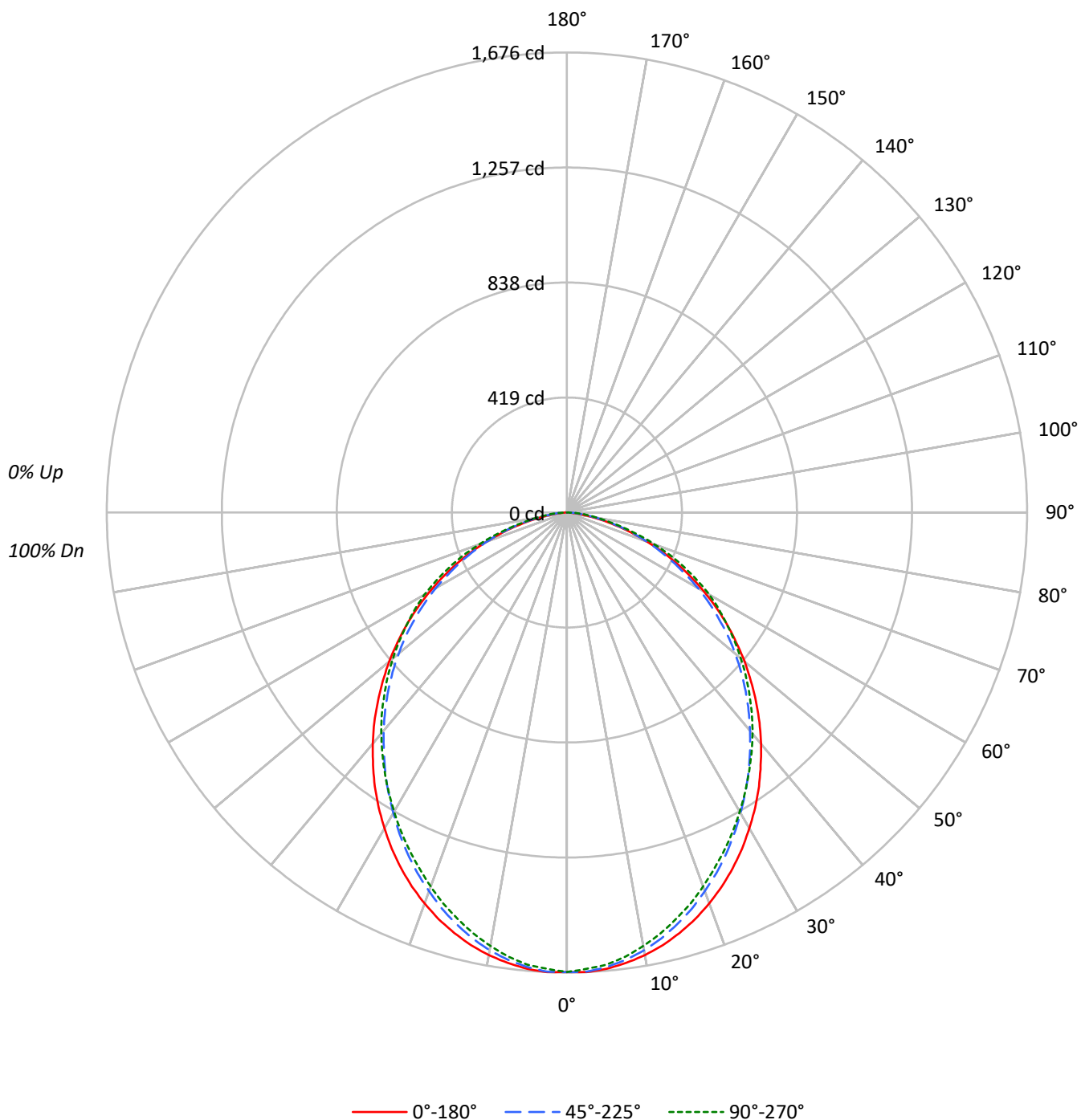
Lumens per Lamp: N/A
Luminaire Lumens: 4004.0 lumens
Efficiency: N/A
Efficacy: 76.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.2
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	101	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		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°	4505	4505	4505
5°	4507	4489	4467
10°	4474	4425	4382
15°	4418	4326	4272
20°	4341	4204	4153
25°	4244	4073	4030
30°	4129	3928	3910
35°	4006	3789	3799
40°	3864	3645	3695
45°	3706	3502	3580
50°	3537	3350	3460
55°	3341	3172	3335
60°	3102	2969	3224
65°	2823	2706	3001
70°	2450	2434	2680
75°	1956	2075	2208
80°	1353	1609	1757
85°	756	1232	1602

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3706 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	3.9
10°-20°	438.0	10.9
20°-30°	636.0	15.9
30°-40°	731.8	18.3
40°-50°	724.1	18.1
50°-60°	619.9	15.5
60°-70°	437.4	10.9
70°-80°	213.0	5.3
80°-90°	46.6	1.2
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°	1231.1	30.7
0°-40°	1962.9	49.0
0°-60°	3307.0	82.6
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1674	1674	1674	1674	1674	
5°	1668	1667	1662	1650	1654	158
15°	1586	1577	1553	1532	1534	447
25°	1430	1408	1372	1354	1357	658
35°	1219	1190	1154	1149	1156	762
45°	974	947	920	931	941	751
55°	712	688	676	696	711	636
65°	443	424	425	457	471	439
75°	188	180	200	212	212	203
85°	24	30	40	48	52	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1674.2	1674.2	1674.2	1674.2	1674.2
2.5°	1676.1	1677.5	1674.2	1661.6	1663.8
5°	1668.4	1667.0	1662.0	1650.1	1653.8
7.5°	1655.1	1652.8	1643.8	1629.6	1632.1
10°	1637.5	1632.8	1619.3	1601.7	1603.7
12.5°	1614.6	1608.3	1589.3	1569.3	1571.4
15°	1585.9	1577.0	1552.7	1531.6	1533.6
17.5°	1553.0	1542.7	1513.4	1490.4	1495.0
20°	1515.8	1501.8	1468.0	1446.2	1450.2
22.5°	1474.7	1457.4	1421.8	1400.7	1403.7
25°	1429.5	1408.3	1371.9	1353.6	1357.3
27.5°	1380.8	1357.5	1319.9	1303.3	1308.9
30°	1328.8	1303.8	1264.0	1252.2	1258.4
32.5°	1275.5	1248.8	1209.4	1201.7	1207.8
35°	1219.4	1190.3	1153.5	1148.6	1156.4
37.5°	1159.4	1131.4	1095.1	1097.1	1104.3
40°	1099.9	1071.0	1037.6	1043.0	1051.8
42.5°	1038.1	1010.1	979.7	987.4	997.7
45°	973.8	947.0	920.2	930.8	940.6
47.5°	909.1	882.6	860.7	873.2	884.9
50°	844.9	819.5	800.2	815.5	826.5
52.5°	777.5	753.3	739.3	755.5	769.8
55°	712.2	687.6	676.2	695.7	710.8
57.5°	644.7	624.4	614.5	637.7	656.6
60°	576.3	556.2	551.6	581.0	599.1
62.5°	509.3	489.6	487.4	522.0	535.1
65°	443.4	424.0	424.9	457.2	471.3
67.5°	378.0	360.3	367.8	398.9	408.4
70°	311.4	295.6	309.4	335.8	340.6
72.5°	248.9	235.5	254.5	273.2	274.4
75°	188.1	179.9	199.6	212.1	212.4
77.5°	134.6	130.3	148.7	157.3	158.0
80°	87.3	89.2	103.8	110.6	113.4
82.5°	51.0	55.5	66.8	78.0	81.0
85°	24.5	30.0	39.9	48.4	51.9
87.5°	8.4	12.1	16.6	18.4	17.9
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	16.03	17.61	16.39	17.93	18.24	16.18	17.77	16.55	18.08	18.39
	3H	17.48	18.90	17.86	19.23	19.59	17.83	19.26	18.21	19.58	19.94
	4H	17.91	19.25	18.31	19.60	19.97	18.34	19.68	18.74	20.03	20.40
	6H	18.13	19.37	18.54	19.73	20.12	18.64	19.88	19.05	20.24	20.63
	8H	18.16	19.34	18.59	19.73	20.13	18.73	19.91	19.15	20.30	20.70
	12H	18.17	19.30	18.60	19.68	20.11	18.79	19.92	19.22	20.30	20.73
4H	2H	16.54	17.88	16.94	18.23	18.61	16.67	18.01	17.07	18.35	18.73
	3H	18.18	19.29	18.59	19.69	20.09	18.52	19.64	18.93	20.04	20.44
	4H	18.69	19.70	19.13	20.11	20.55	19.14	20.15	19.57	20.56	21.00
	6H	19.00	19.87	19.45	20.31	20.77	19.55	20.42	20.00	20.86	21.32
	8H	19.05	19.87	19.51	20.31	20.78	19.67	20.49	20.13	20.93	21.40
	12H	19.07	19.81	19.55	20.28	20.75	19.77	20.50	20.25	20.98	21.45
8H	4H	18.92	19.74	19.38	20.18	20.65	19.32	20.14	19.79	20.59	21.05
	6H	19.29	19.96	19.78	20.45	20.93	19.81	20.49	20.31	20.98	21.45
	8H	19.38	19.98	19.89	20.49	20.98	19.99	20.60	20.50	21.10	21.59
	12H	19.43	19.96	19.94	20.45	21.02	20.15	20.68	20.66	21.18	21.74
12H	4H	18.93	19.66	19.41	20.14	20.61	19.32	20.06	19.81	20.53	21.00
	6H	19.31	19.92	19.82	20.42	20.91	19.82	20.42	20.33	20.93	21.42
	8H	19.44	19.97	19.95	20.46	21.03	20.04	20.57	20.55	21.07	21.63