

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: P1498145

Luminaire Tested: MAE-G-2-120-1LO-HI-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498145
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-2-120-1LO-HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

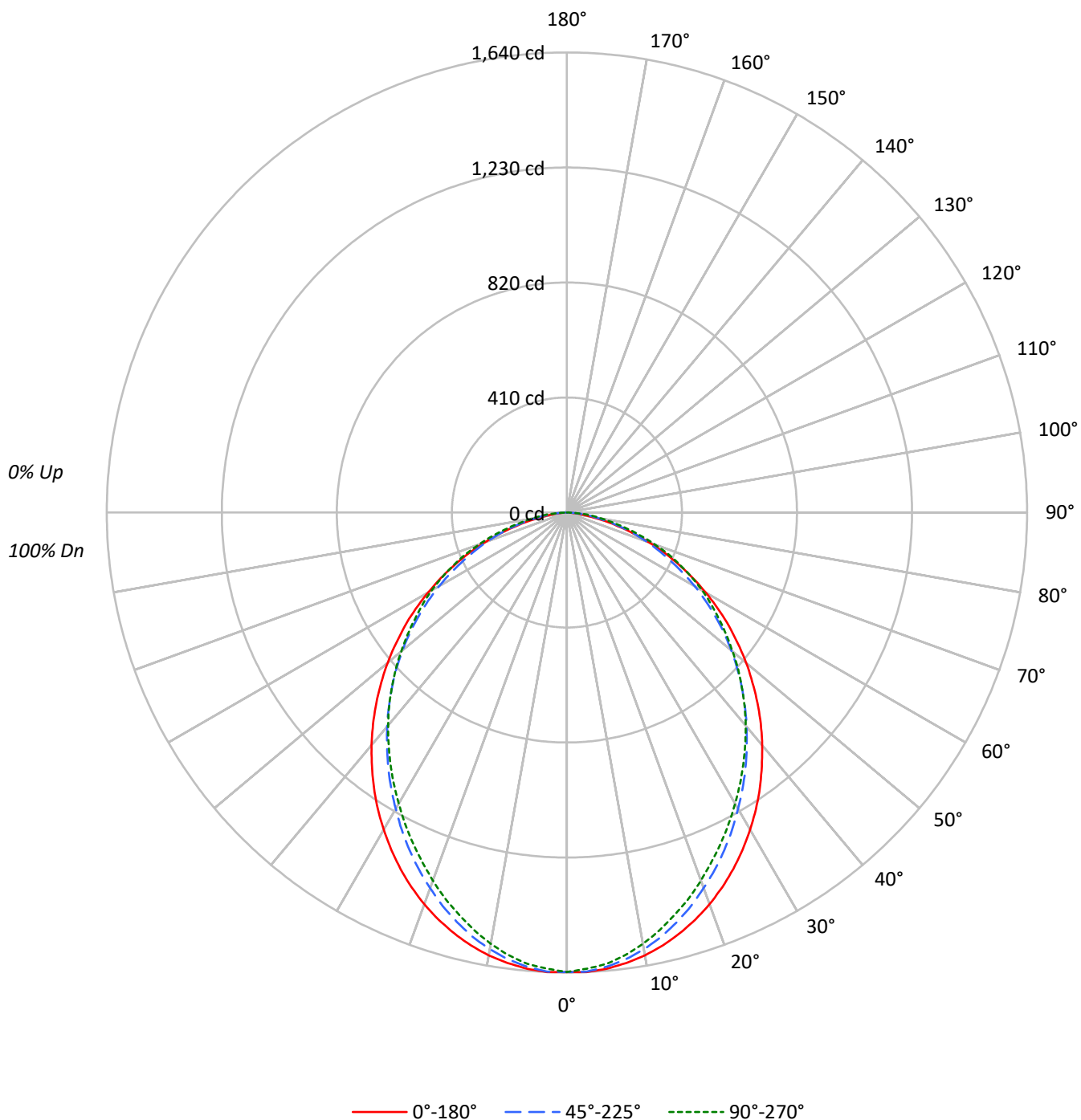
Lumens per Lamp: N/A
Luminaire Lumens: 3877.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.1 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64
5	77	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°	4408	4408	4408
5°	4410	4391	4364
10°	4380	4321	4266
15°	4327	4212	4136
20°	4255	4081	3998
25°	4165	3942	3858
30°	4057	3790	3724
35°	3939	3646	3600
40°	3804	3499	3482
45°	3655	3354	3357
50°	3493	3203	3226
55°	3306	3029	3100
60°	3077	2832	3002
65°	2809	2593	2849
70°	2445	2365	2630
75°	1962	2077	2301
80°	1370	1695	1959
85°	772	1352	1819

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3655 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	4.0
10°-20°	426.3	11.0
20°-30°	616.1	15.9
30°-40°	705.7	18.2
40°-50°	695.3	17.9
50°-60°	593.4	15.3
60°-70°	422.0	10.9
70°-80°	214.3	5.5
80°-90°	50.3	1.3
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°	1196.0	30.9
0°-40°	1901.7	49.1
0°-60°	3190.4	82.3
0°-90°	3877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1633	1632	1626	1612	1616	155
15°	1553	1542	1512	1484	1485	438
25°	1403	1376	1328	1299	1300	646
35°	1199	1162	1110	1093	1096	749
45°	960	924	881	878	882	741
55°	705	672	646	652	661	629
65°	441	415	407	435	448	436
75°	189	177	200	218	221	203
85°	25	31	44	54	59	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1638.1	1638.1	1638.1	1638.1	1638.1
2.5°	1639.8	1641.5	1638.1	1624.7	1627.7
5°	1632.7	1631.5	1625.6	1611.7	1615.6
7.5°	1619.9	1617.2	1606.6	1589.6	1591.9
10°	1603.0	1597.6	1581.3	1559.7	1561.1
12.5°	1580.8	1573.0	1549.7	1524.5	1525.6
15°	1553.2	1542.3	1512.0	1484.0	1484.6
17.5°	1521.7	1508.3	1471.1	1440.4	1443.2
20°	1486.0	1468.3	1425.0	1394.8	1396.1
22.5°	1446.2	1424.5	1378.2	1347.9	1347.8
25°	1402.6	1376.4	1327.6	1299.3	1299.5
27.5°	1355.7	1326.7	1275.2	1248.2	1249.7
30°	1305.6	1273.9	1219.8	1196.8	1198.5
32.5°	1253.7	1219.7	1165.8	1146.0	1147.6
35°	1199.1	1162.4	1110.0	1093.1	1095.8
37.5°	1140.9	1105.0	1052.7	1041.5	1043.6
40°	1082.9	1045.8	996.1	988.0	991.3
42.5°	1022.6	986.2	939.4	933.6	937.8
45°	960.3	924.3	881.4	878.4	882.0
47.5°	897.1	861.8	823.8	822.6	828.0
50°	834.4	800.0	765.0	766.6	770.7
52.5°	768.1	735.5	706.1	708.8	716.3
55°	704.7	671.5	645.7	651.8	660.7
57.5°	638.6	609.7	586.5	597.3	609.8
60°	571.8	543.7	526.2	544.4	557.8
62.5°	505.9	478.8	465.8	491.1	502.7
65°	441.2	414.8	407.2	435.1	447.5
67.5°	376.2	352.7	353.7	383.6	392.9
70°	310.8	289.5	300.6	327.8	334.3
72.5°	248.7	231.3	250.2	272.5	276.4
75°	188.7	177.2	199.8	217.7	221.3
77.5°	135.4	129.4	152.2	167.0	171.1
80°	88.4	90.1	109.4	122.0	126.4
82.5°	51.7	57.0	72.7	86.7	91.2
85°	25.0	31.4	43.8	54.3	58.9
87.5°	8.6	12.8	18.5	20.6	20.0
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	15.99	17.58	16.36	17.89	18.21	15.83	17.41	16.19	17.73	18.04
	3H	17.47	18.89	17.84	19.22	19.58	17.58	19.00	17.95	19.33	19.69
	4H	17.91	19.25	18.31	19.60	19.97	18.17	19.51	18.57	19.86	20.23
	6H	18.14	19.38	18.55	19.74	20.14	18.57	19.81	18.98	20.17	20.56
	8H	18.18	19.36	18.60	19.75	20.15	18.69	19.88	19.12	20.27	20.66
	12H	18.19	19.32	18.62	19.70	20.13	18.79	19.92	19.22	20.30	20.73
4H	2H	16.48	17.82	16.88	18.17	18.54	16.34	17.68	16.74	18.03	18.41
	3H	18.14	19.26	18.55	19.66	20.06	18.30	19.42	18.71	19.82	20.22
	4H	18.67	19.68	19.10	20.09	20.53	19.02	20.03	19.45	20.44	20.88
	6H	18.99	19.87	19.44	20.31	20.76	19.53	20.41	19.99	20.85	21.31
	8H	19.05	19.87	19.51	20.31	20.78	19.71	20.53	20.17	20.97	21.44
	12H	19.08	19.81	19.56	20.29	20.76	19.84	20.58	20.32	21.05	21.52
8H	4H	18.91	19.73	19.37	20.17	20.64	19.22	20.04	19.68	20.49	20.95
	6H	19.30	19.98	19.80	20.47	20.95	19.84	20.52	20.33	21.01	21.48
	8H	19.40	20.01	19.91	20.52	21.00	20.08	20.68	20.59	21.19	21.68
	12H	19.46	20.00	19.97	20.49	21.05	20.28	20.82	20.79	21.31	21.88
12H	4H	18.93	19.67	19.41	20.14	20.61	19.23	19.96	19.71	20.44	20.91
	6H	19.34	19.95	19.85	20.45	20.94	19.85	20.46	20.36	20.97	21.45
	8H	19.48	20.02	19.99	20.51	21.07	20.14	20.67	20.65	21.17	21.73