

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: P1498616

Luminaire Tested: MAE-G-2-120-3HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

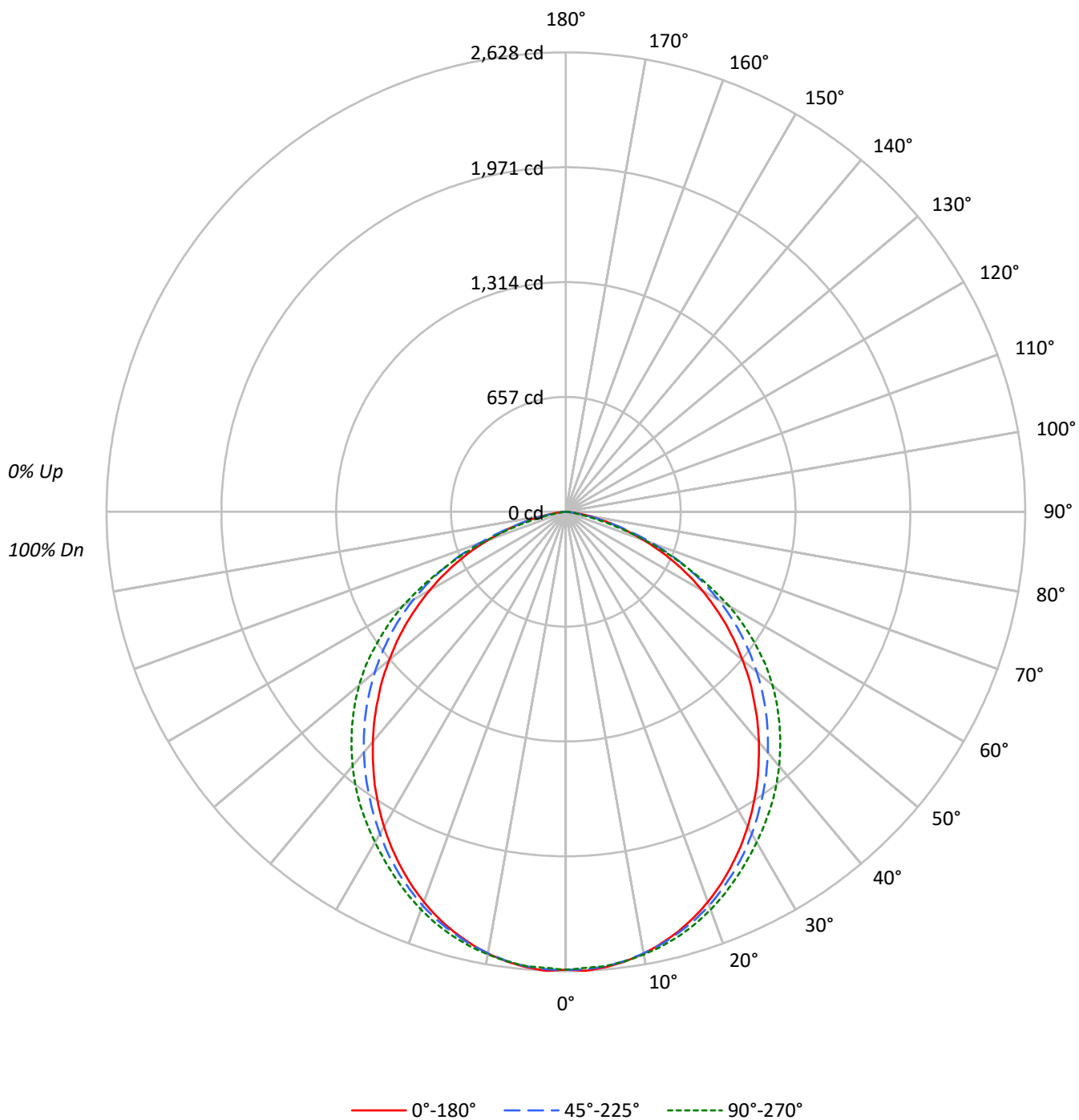
Lumens per Lamp: N/A
Luminaire Lumens: 6640.0 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	96	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	57	69	62	57		67	61	56		65
5	78	65	56	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	44	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	36	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°	7050	7050	7050
5°	7065	7051	7047
10°	7013	7010	7026
15°	6924	6946	6997
20°	6803	6866	6937
25°	6645	6752	6858
30°	6465	6612	6785
35°	6262	6461	6734
40°	6035	6315	6667
45°	5789	6159	6581
50°	5520	5969	6464
55°	5224	5738	6215
60°	4848	5421	5800
65°	4378	4944	4967
70°	3736	4151	3861
75°	2934	3029	2375
80°	1915	1557	919
85°	917	614	488

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6581 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.5	3.7
10°-20°	702.6	10.6
20°-30°	1044.9	15.7
30°-40°	1231.3	18.5
40°-50°	1248.4	18.8
50°-60°	1087.8	16.4
60°-70°	744.0	11.2
70°-80°	298.9	4.5
80°-90°	34.6	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°	1994.9	30.0
0°-40°	3226.3	48.6
0°-60°	5562.5	83.8
0°-90°	6640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2620	2620	2620	2620	2620	
5°	2616	2600	2610	2607	2609	248
15°	2485	2474	2493	2504	2511	700
25°	2238	2239	2274	2290	2310	1030
35°	1906	1915	1967	2015	2050	1191
45°	1521	1542	1618	1691	1729	1174
55°	1113	1137	1223	1300	1325	994
65°	688	718	776	782	780	680
75°	282	301	291	250	228	303
85°	30	27	20	18	16	46
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2619.8	2619.8	2619.8	2619.8	2619.8
2.5°	2628.3	2610.7	2619.8	2618.0	2611.3
5°	2615.5	2599.8	2610.1	2607.1	2608.9
7.5°	2594.9	2580.5	2591.3	2590.8	2593.7
10°	2566.5	2552.0	2565.3	2567.8	2571.4
12.5°	2528.9	2516.9	2533.2	2538.0	2545.3
15°	2485.3	2474.4	2493.2	2503.5	2511.4
17.5°	2434.4	2425.3	2449.5	2459.3	2470.2
20°	2375.6	2369.1	2397.5	2406.6	2422.4
22.5°	2310.3	2306.7	2336.3	2350.2	2368.4
25°	2238.1	2238.8	2273.9	2290.3	2309.6
27.5°	2162.5	2163.7	2203.7	2226.6	2247.2
30°	2080.7	2084.3	2127.9	2156.5	2183.6
32.5°	1994.1	2001.3	2048.6	2087.4	2117.6
35°	1906.2	1914.7	1966.9	2015.2	2049.8
37.5°	1811.2	1825.1	1883.9	1941.4	1977.1
40°	1717.9	1731.8	1797.8	1861.4	1897.8
42.5°	1621.6	1639.1	1709.4	1780.2	1815.3
45°	1521.1	1541.5	1618.5	1691.2	1729.4
47.5°	1424.7	1442.9	1524.0	1599.8	1639.1
50°	1318.6	1341.6	1425.9	1505.3	1544.1
52.5°	1217.5	1238.7	1325.3	1406.6	1441.7
55°	1113.4	1136.9	1223.0	1299.9	1324.8
57.5°	1006.7	1035.2	1118.2	1182.5	1206.0
60°	900.8	929.2	1007.3	1060.1	1077.6
62.5°	795.3	825.7	894.1	929.2	929.2
65°	687.5	718.4	776.5	782.5	780.1
67.5°	579.7	610.6	654.8	643.8	636.6
70°	474.9	501.5	527.6	507.6	490.7
72.5°	373.1	398.6	402.9	373.8	352.5
75°	282.2	301.1	291.3	250.2	228.4
77.5°	196.8	207.8	187.2	145.4	127.9
80°	123.6	128.4	100.5	70.8	59.3
82.5°	66.7	67.2	43.6	35.7	33.3
85°	29.7	26.6	19.9	17.5	15.8
87.5°	10.3	9.1	7.2	6.7	5.5
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	17.71	19.30	18.08	19.61	19.92	18.70	20.28	19.06	20.59	20.91
	3H	19.12	20.54	19.50	20.87	21.23	19.90	21.32	20.28	21.65	22.01
	4H	19.52	20.85	19.91	21.20	21.57	20.12	21.45	20.52	21.80	22.18
	6H	19.69	20.92	20.10	21.29	21.68	20.13	21.37	20.54	21.73	22.12
	8H	19.70	20.88	20.13	21.27	21.67	20.11	21.28	20.54	21.67	22.07
	12H	19.70	20.82	20.13	21.20	21.63	20.09	21.21	20.52	21.59	22.02
4H	2H	18.38	19.72	18.78	20.06	20.44	19.17	20.51	19.57	20.86	21.23
	3H	19.95	21.06	20.36	21.46	21.86	20.54	21.65	20.95	22.05	22.45
	4H	20.43	21.42	20.86	21.84	22.27	20.82	21.81	21.25	22.22	22.66
	6H	20.67	21.53	21.12	21.97	22.43	20.87	21.73	21.32	22.17	22.63
	8H	20.69	21.50	21.15	21.94	22.41	20.84	21.65	21.30	22.09	22.56
	12H	20.69	21.41	21.17	21.89	22.36	20.82	21.54	21.30	22.02	22.49
8H	4H	20.57	21.38	21.04	21.82	22.29	20.93	21.74	21.40	22.18	22.65
	6H	20.85	21.51	21.34	22.00	22.48	20.99	21.66	21.49	22.15	22.62
	8H	20.89	21.48	21.40	21.99	22.48	20.97	21.56	21.48	22.07	22.56
	12H	20.90	21.42	21.41	21.92	22.48	20.96	21.48	21.47	21.97	22.53
12H	4H	20.56	21.27	21.04	21.75	22.22	20.92	21.64	21.40	22.12	22.59
	6H	20.82	21.41	21.33	21.92	22.41	20.97	21.56	21.48	22.07	22.56
	8H	20.88	21.41	21.39	21.90	22.46	20.97	21.49	21.48	21.98	22.55