

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: P1498604

Luminaire Tested: MAE-G-2-120-3HI-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498604
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-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

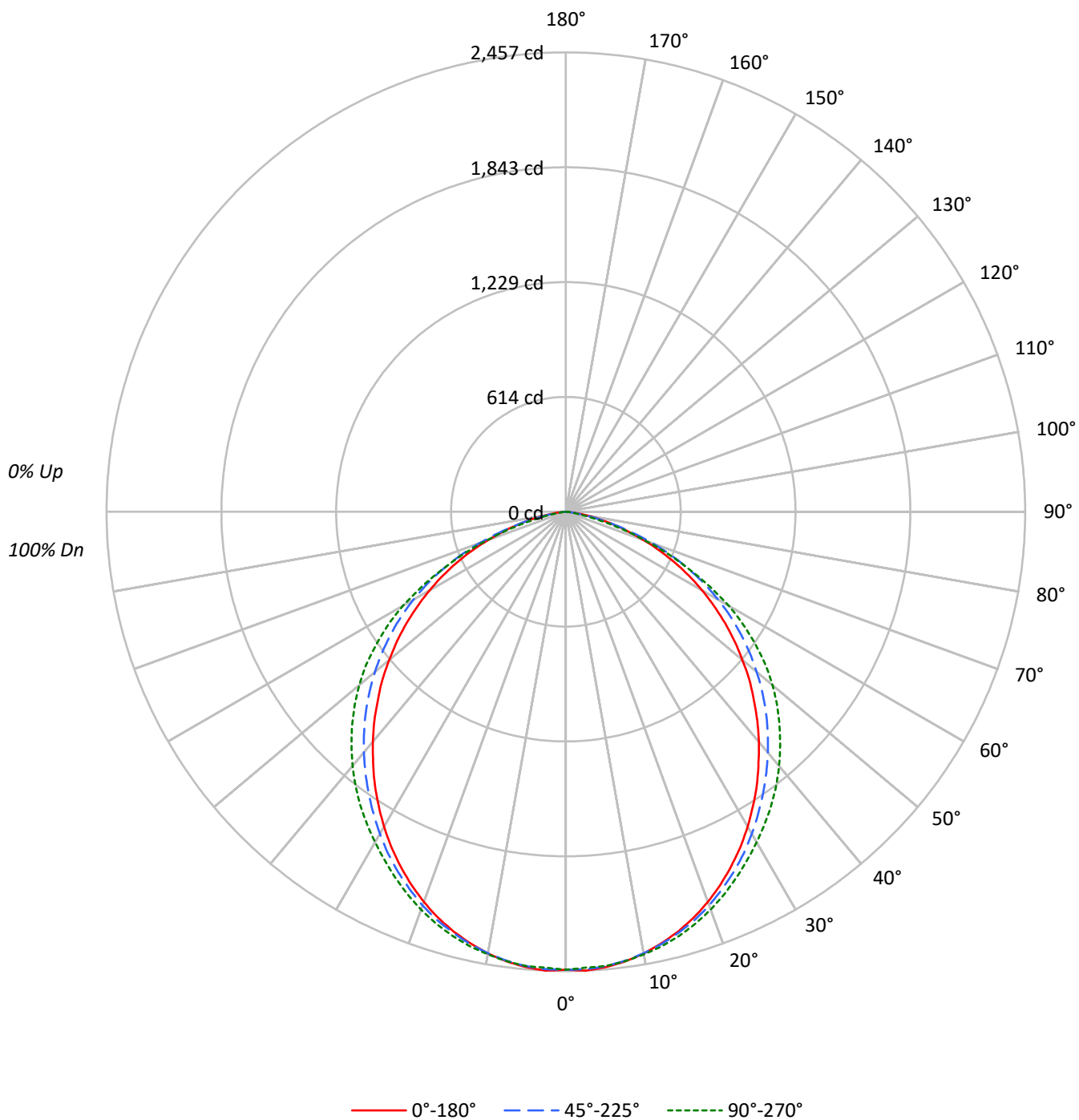
Lumens per Lamp: N/A
Luminaire Lumens: 6207.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	6590	6590	6590
5°	6605	6591	6588
10°	6556	6553	6568
15°	6472	6493	6540
20°	6359	6418	6485
25°	6212	6311	6410
30°	6044	6181	6343
35°	5854	6040	6295
40°	5641	5904	6232
45°	5411	5758	6152
50°	5160	5580	6043
55°	4883	5364	5810
60°	4532	5068	5422
65°	4092	4622	4644
70°	3493	3880	3609
75°	2743	2831	2220
80°	1790	1457	859
85°	858	574	457

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 6152 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	3.7
10°-20°	656.7	10.6
20°-30°	976.8	15.7
30°-40°	1151.0	18.5
40°-50°	1167.0	18.8
50°-60°	1016.9	16.4
60°-70°	695.5	11.2
70°-80°	279.4	4.5
80°-90°	32.4	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°	1864.9	30.0
0°-40°	3015.9	48.6
0°-60°	5199.8	83.8
0°-90°	6207.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6207.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2449	2449	2449	2449	2449	
5°	2445	2430	2440	2437	2439	232
15°	2323	2313	2331	2340	2348	655
25°	2092	2093	2126	2141	2159	963
35°	1782	1790	1839	1884	1916	1113
45°	1422	1441	1513	1581	1617	1097
55°	1041	1063	1143	1215	1238	929
65°	643	672	726	732	729	635
75°	264	282	272	234	214	283
85°	28	25	19	16	15	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2449.0	2449.0	2449.0	2449.0	2449.0
2.5°	2456.9	2440.5	2449.0	2447.2	2441.0
5°	2445.0	2430.2	2439.9	2437.1	2438.7
7.5°	2425.7	2412.2	2422.3	2421.8	2424.6
10°	2399.2	2385.5	2398.1	2400.3	2403.7
12.5°	2364.0	2352.7	2368.0	2372.5	2379.3
15°	2323.2	2313.1	2330.6	2340.2	2347.6
17.5°	2275.7	2267.1	2289.8	2298.9	2309.1
20°	2220.7	2214.6	2241.1	2249.6	2264.4
22.5°	2159.6	2156.3	2183.9	2196.9	2214.0
25°	2092.2	2092.8	2125.6	2141.0	2159.0
27.5°	2021.5	2022.6	2060.0	2081.4	2100.7
30°	1945.0	1948.4	1989.2	2015.8	2041.2
32.5°	1864.0	1870.8	1915.0	1951.3	1979.5
35°	1781.9	1789.8	1838.6	1883.8	1916.1
37.5°	1693.1	1706.1	1761.0	1814.8	1848.1
40°	1605.8	1618.9	1680.6	1740.0	1774.0
42.5°	1515.9	1532.2	1598.0	1664.2	1696.9
45°	1421.9	1441.0	1513.0	1580.9	1616.6
47.5°	1331.8	1348.8	1424.6	1495.5	1532.2
50°	1232.6	1254.2	1332.9	1407.1	1443.4
52.5°	1138.1	1157.9	1238.9	1314.9	1347.6
55°	1040.8	1062.8	1143.3	1215.1	1238.4
57.5°	941.0	967.7	1045.3	1105.4	1127.4
60°	842.0	868.6	941.7	991.0	1007.4
62.5°	743.4	771.8	835.8	868.6	868.6
65°	642.7	671.6	725.9	731.5	729.3
67.5°	541.9	570.8	612.1	601.9	595.1
70°	443.9	468.8	493.2	474.5	458.7
72.5°	348.8	372.6	376.6	349.4	329.5
75°	263.8	281.5	272.3	233.9	213.5
77.5°	184.0	194.2	175.0	135.9	119.5
80°	115.5	120.0	94.0	66.2	55.4
82.5°	62.3	62.8	40.8	33.4	31.2
85°	27.8	24.9	18.6	16.4	14.8
87.5°	9.6	8.5	6.8	6.3	5.1
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	17.48	19.06	17.84	19.37	19.69	18.46	20.04	18.83	20.36	20.67
	3H	18.89	20.31	19.26	20.64	21.00	19.67	21.09	20.04	21.41	21.77
	4H	19.28	20.61	19.68	20.96	21.34	19.88	21.22	20.28	21.56	21.94
	6H	19.46	20.69	19.87	21.05	21.44	19.90	21.13	20.31	21.50	21.89
	8H	19.47	20.64	19.90	21.03	21.43	19.88	21.05	20.30	21.44	21.84
	12H	19.46	20.58	19.89	20.97	21.40	19.85	20.97	20.28	21.36	21.79
4H	2H	18.15	19.48	18.55	19.83	20.21	18.94	20.27	19.34	20.62	21.00
	3H	19.72	20.82	20.13	21.22	21.62	20.31	21.41	20.72	21.81	22.21
	4H	20.19	21.19	20.63	21.60	22.04	20.58	21.57	21.01	21.99	22.43
	6H	20.43	21.29	20.89	21.74	22.19	20.63	21.49	21.09	21.94	22.39
	8H	20.46	21.26	20.92	21.70	22.17	20.61	21.41	21.07	21.86	22.32
	12H	20.46	21.18	20.94	21.65	22.12	20.59	21.31	21.07	21.78	22.25
8H	4H	20.34	21.14	20.80	21.59	22.05	20.70	21.50	21.16	21.95	22.41
	6H	20.61	21.28	21.11	21.77	22.24	20.76	21.42	21.25	21.91	22.39
	8H	20.65	21.25	21.17	21.75	22.24	20.74	21.33	21.25	21.84	22.33
	12H	20.67	21.19	21.18	21.68	22.25	20.72	21.24	21.23	21.74	22.30
12H	4H	20.32	21.04	20.80	21.52	21.99	20.69	21.41	21.17	21.88	22.35
	6H	20.58	21.18	21.10	21.69	22.17	20.74	21.33	21.25	21.84	22.33
	8H	20.65	21.17	21.16	21.66	22.23	20.74	21.26	21.25	21.75	22.31