

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: P1498781

Luminaire Tested: MAE-G-2-120-3LO-STD-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498781
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-2-120-3LO-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

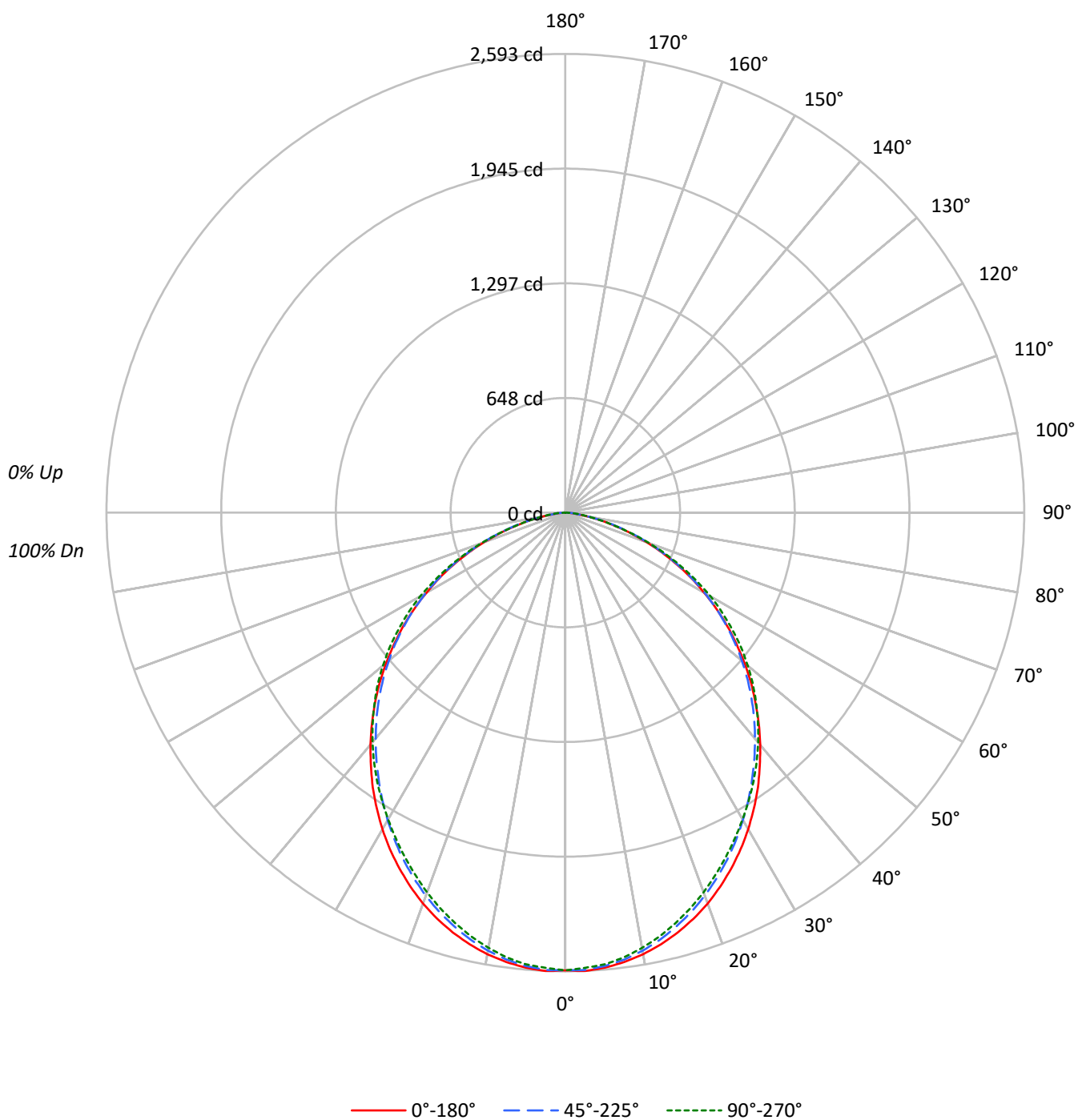
Lumens per Lamp: N/A
Luminaire Lumens: 6325.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 71.5
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	98	107	103	99	96	99	96	93		95	92	90		91
2	100	92	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		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	44	39	51	44	38		50	43	38		48
8	62	49	41	35	61	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	29	53	41	34	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6962	6962	6962
5°	6974	6950	6923
10°	6926	6871	6826
15°	6843	6748	6693
20°	6733	6598	6539
25°	6587	6428	6375
30°	6421	6237	6222
35°	6231	6044	6090
40°	6017	5856	5954
45°	5784	5664	5804
50°	5529	5452	5632
55°	5241	5207	5397
60°	4885	4899	5102
65°	4443	4492	4610
70°	3834	3933	3958
75°	3054	3179	3067
80°	2067	2174	2131
85°	1078	1439	1806

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5804 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.4	3.8
10°-20°	682.4	10.8
20°-30°	999.3	15.8
30°-40°	1160.3	18.3
40°-50°	1159.8	18.3
50°-60°	1000.4	15.8
60°-70°	698.8	11.0
70°-80°	321.3	5.1
80°-90°	59.3	0.9
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°	1925.2	30.4
0°-40°	3085.5	48.8
0°-60°	5245.6	82.9
0°-90°	6325.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2587	2587	2587	2587	2587	
5°	2582	2572	2573	2559	2563	245
15°	2456	2440	2422	2400	2402	692
25°	2218	2194	2165	2141	2147	1021
35°	1897	1866	1840	1839	1854	1185
45°	1520	1495	1488	1509	1525	1173
55°	1117	1097	1110	1139	1150	997
65°	698	689	705	720	724	690
75°	294	293	306	301	295	316
85°	35	38	47	55	58	51
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2587.2	2587.2	2587.2	2587.2	2587.2
2.5°	2593.2	2583.9	2587.2	2576.2	2575.5
5°	2581.8	2571.8	2572.8	2558.9	2562.8
7.5°	2561.8	2550.6	2547.9	2532.2	2535.5
10°	2534.7	2521.2	2514.4	2495.9	2498.1
12.5°	2498.7	2484.0	2472.5	2450.8	2454.3
15°	2456.4	2439.6	2422.1	2399.6	2402.4
17.5°	2407.3	2388.2	2366.7	2341.0	2346.2
20°	2351.0	2329.7	2304.2	2277.2	2283.6
22.5°	2288.0	2264.9	2236.3	2210.7	2216.7
25°	2218.4	2194.1	2164.8	2140.8	2146.9
27.5°	2145.4	2118.2	2087.7	2068.0	2075.1
30°	2066.3	2037.7	2007.1	1991.8	2002.3
32.5°	1982.8	1953.8	1924.8	1916.8	1929.1
35°	1896.8	1866.0	1839.7	1839.2	1853.8
37.5°	1804.4	1777.1	1754.2	1761.3	1776.0
40°	1712.8	1684.4	1666.9	1679.1	1694.8
42.5°	1617.8	1591.7	1578.6	1596.6	1611.0
45°	1519.8	1494.7	1488.4	1509.4	1525.1
47.5°	1422.9	1397.7	1396.9	1420.7	1438.1
50°	1320.8	1298.5	1302.2	1330.1	1345.3
52.5°	1218.3	1197.1	1206.7	1236.5	1251.9
55°	1117.2	1097.0	1109.9	1139.4	1150.4
57.5°	1012.2	997.5	1012.1	1038.6	1050.7
60°	907.6	894.2	910.2	936.2	947.9
62.5°	802.9	792.1	808.7	831.3	836.5
65°	697.8	688.6	705.4	720.3	724.0
67.5°	591.3	585.8	602.9	613.5	614.7
70°	487.3	481.2	499.9	506.3	503.0
72.5°	386.3	384.1	398.8	401.2	394.7
75°	293.7	292.7	305.8	300.8	295.0
77.5°	207.8	208.0	217.2	210.9	208.1
80°	133.4	137.4	140.3	139.5	137.5
82.5°	75.1	80.0	82.5	91.1	94.8
85°	34.9	38.5	46.6	54.9	58.5
87.5°	11.9	14.8	19.3	20.9	19.6
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	17.67	19.26	18.04	19.57	19.89	17.95	19.54	18.32	19.85	20.17
	3H	19.13	20.55	19.51	20.88	21.24	19.41	20.84	19.79	21.17	21.53
	4H	19.55	20.89	19.95	21.24	21.62	19.82	21.16	20.22	21.50	21.88
	6H	19.76	21.00	20.17	21.36	21.75	20.01	21.25	20.42	21.61	22.00
	8H	19.79	20.97	20.21	21.36	21.76	20.05	21.23	20.48	21.62	22.02
	12H	19.79	20.91	20.22	21.30	21.73	20.08	21.20	20.51	21.59	22.02
4H	2H	18.24	19.58	18.64	19.93	20.31	18.47	19.81	18.87	20.16	20.53
	3H	19.88	20.99	20.29	21.39	21.79	20.12	21.23	20.53	21.63	22.03
	4H	20.39	21.39	20.82	21.80	22.24	20.61	21.62	21.05	22.03	22.47
	6H	20.67	21.54	21.12	21.98	22.44	20.88	21.76	21.34	22.20	22.65
	8H	20.71	21.53	21.17	21.97	22.43	20.95	21.76	21.41	22.20	22.67
	12H	20.72	21.45	21.21	21.93	22.40	20.99	21.72	21.47	22.20	22.67
8H	4H	20.58	21.39	21.04	21.83	22.30	20.78	21.60	21.25	22.04	22.51
	6H	20.91	21.59	21.41	22.08	22.55	21.11	21.78	21.61	22.27	22.75
	8H	20.98	21.59	21.50	22.09	22.58	21.20	21.81	21.72	22.31	22.80
	12H	21.02	21.55	21.53	22.04	22.61	21.29	21.82	21.80	22.31	22.87
12H	4H	20.58	21.30	21.06	21.78	22.25	20.78	21.51	21.26	21.99	22.46
	6H	20.91	21.52	21.43	22.02	22.51	21.11	21.71	21.62	22.22	22.70
	8H	21.02	21.55	21.53	22.04	22.60	21.24	21.77	21.74	22.26	22.82