

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: P1498775

Luminaire Tested: MAE-G-2-120-3LO-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498775
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-35-90-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

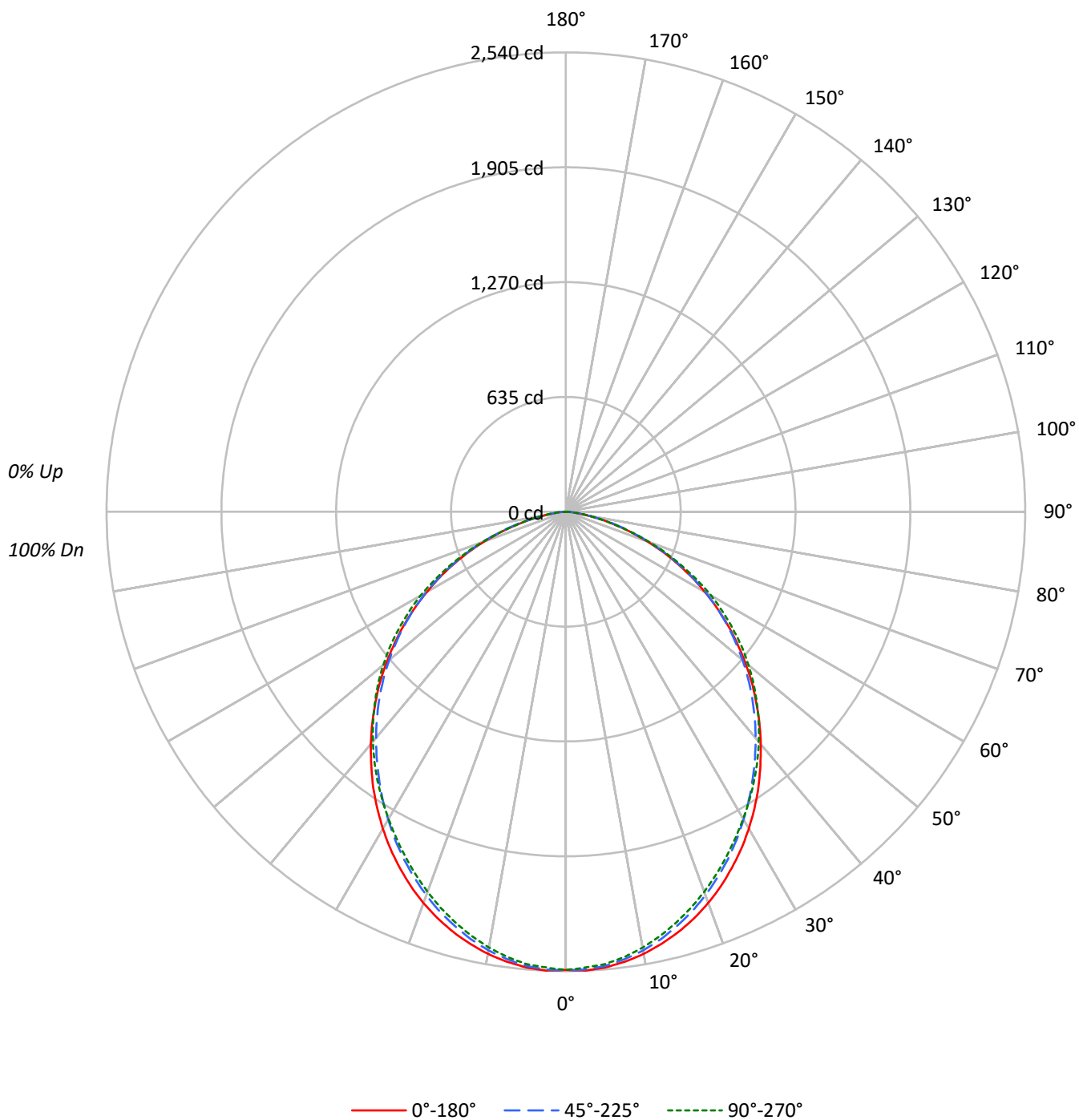
Lumens per Lamp: N/A
Luminaire Lumens: 6194.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.16 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1498775

CATALOG NUMBER: MAE-G-2-120-3LO-STD-35-90-WDDCPH

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	85		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53		
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	46		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	42	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	34	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6818	6818	6818
5°	6830	6806	6779
10°	6783	6728	6685
15°	6701	6608	6554
20°	6593	6462	6404
25°	6451	6295	6243
30°	6288	6107	6093
35°	6102	5918	5964
40°	5892	5734	5830
45°	5664	5547	5684
50°	5415	5339	5516
55°	5133	5099	5286
60°	4784	4797	4996
65°	4351	4399	4514
70°	3755	3851	3876
75°	2990	3114	3004
80°	2025	2129	2087
85°	1053	1411	1769

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5684 cd/sqm

TEST NUMBER: P1498775

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	238.4	3.8
10°-20°	668.3	10.8
20°-30°	978.7	15.8
30°-40°	1136.3	18.3
40°-50°	1135.8	18.3
50°-60°	979.6	15.8
60°-70°	684.4	11.0
70°-80°	314.6	5.1
80°-90°	58.1	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°	1885.3	30.4
0°-40°	3021.6	48.8
0°-60°	5137.0	82.9
0°-90°	6194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6194.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2534	2534	2534	2534	2534	
5°	2528	2518	2520	2506	2510	240
15°	2406	2389	2372	2350	2353	678
25°	2172	2149	2120	2096	2102	1000
35°	1858	1827	1802	1801	1815	1161
45°	1488	1464	1458	1478	1494	1148
55°	1094	1074	1087	1116	1127	977
65°	683	674	691	705	709	675
75°	288	287	300	295	289	309
85°	34	38	46	54	57	50
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3LO-STD-35-90-WDDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2533.5	2533.5	2533.5	2533.5	2533.5
2.5°	2539.5	2530.4	2533.5	2522.9	2522.1
5°	2528.3	2518.5	2519.6	2506.0	2509.7
7.5°	2508.7	2497.8	2495.2	2479.7	2483.0
10°	2482.3	2468.9	2462.4	2444.2	2446.4
12.5°	2447.1	2432.6	2421.3	2400.1	2403.5
15°	2405.5	2389.1	2371.9	2349.9	2352.6
17.5°	2357.4	2338.7	2317.7	2292.5	2297.5
20°	2302.4	2281.5	2256.5	2230.0	2236.3
22.5°	2240.5	2218.0	2189.9	2165.0	2170.8
25°	2172.5	2148.7	2120.0	2096.4	2102.5
27.5°	2100.9	2074.3	2044.4	2025.3	2032.0
30°	2023.5	1995.5	1965.5	1950.5	1960.8
32.5°	1941.7	1913.2	1884.9	1877.1	1889.1
35°	1857.5	1827.4	1801.5	1801.1	1815.4
37.5°	1767.1	1740.3	1717.8	1724.9	1739.2
40°	1677.3	1649.6	1632.3	1644.2	1659.6
42.5°	1584.4	1558.8	1546.0	1563.6	1577.6
45°	1488.4	1463.7	1457.6	1478.1	1493.6
47.5°	1393.5	1368.8	1368.0	1391.3	1408.3
50°	1293.4	1271.6	1275.2	1302.6	1317.5
52.5°	1193.1	1172.4	1181.7	1210.9	1225.9
55°	1094.0	1074.3	1086.9	1115.8	1126.6
57.5°	991.2	976.8	991.0	1017.1	1028.9
60°	888.9	875.7	891.4	916.8	928.3
62.5°	786.3	775.7	791.9	814.2	819.2
65°	683.4	674.4	690.8	705.4	708.9
67.5°	579.1	573.7	590.4	600.8	602.0
70°	477.3	471.3	489.5	495.8	492.6
72.5°	378.3	376.1	390.5	392.9	386.5
75°	287.6	286.6	299.5	294.6	288.9
77.5°	203.4	203.7	212.8	206.6	203.9
80°	130.7	134.4	137.4	136.6	134.7
82.5°	73.5	78.4	80.7	89.2	92.8
85°	34.1	37.8	45.7	53.8	57.3
87.5°	11.5	14.5	18.9	20.4	19.2
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	17.60	19.19	17.97	19.50	19.81	17.88	19.47	18.25	19.78	20.09
	3H	19.06	20.48	19.43	20.81	21.17	19.34	20.77	19.72	21.09	21.45
	4H	19.48	20.82	19.88	21.17	21.54	19.75	21.08	20.14	21.43	21.81
	6H	19.69	20.92	20.10	21.29	21.68	19.94	21.18	20.35	21.54	21.93
	8H	19.71	20.89	20.14	21.28	21.68	19.98	21.16	20.40	21.55	21.95
	12H	19.71	20.84	20.14	21.22	21.65	20.00	21.13	20.43	21.51	21.94
4H	2H	18.17	19.51	18.57	19.86	20.23	18.40	19.74	18.80	20.08	20.46
	3H	19.80	20.92	20.21	21.32	21.72	20.05	21.16	20.46	21.56	21.96
	4H	20.31	21.31	20.75	21.73	22.17	20.54	21.54	20.97	21.96	22.39
	6H	20.60	21.47	21.05	21.91	22.37	20.81	21.68	21.27	22.12	22.58
	8H	20.64	21.45	21.10	21.90	22.36	20.87	21.69	21.34	22.13	22.60
	12H	20.65	21.38	21.13	21.86	22.33	20.92	21.65	21.40	22.12	22.59
8H	4H	20.50	21.32	20.97	21.76	22.23	20.71	21.53	21.17	21.97	22.44
	6H	20.84	21.51	21.34	22.00	22.48	21.04	21.71	21.53	22.20	22.68
	8H	20.91	21.51	21.42	22.02	22.51	21.13	21.73	21.64	22.24	22.73
	12H	20.95	21.48	21.46	21.97	22.53	21.22	21.75	21.72	22.24	22.80
12H	4H	20.50	21.23	20.98	21.71	22.18	20.71	21.44	21.19	21.91	22.38
	6H	20.84	21.44	21.35	21.95	22.44	21.03	21.64	21.55	22.14	22.63
	8H	20.94	21.48	21.45	21.97	22.53	21.16	21.69	21.67	22.19	22.75