

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: P1498539

Luminaire Tested: MAE-G-2-120-2STD-HI-35

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498539
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-HI-35
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, no door frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

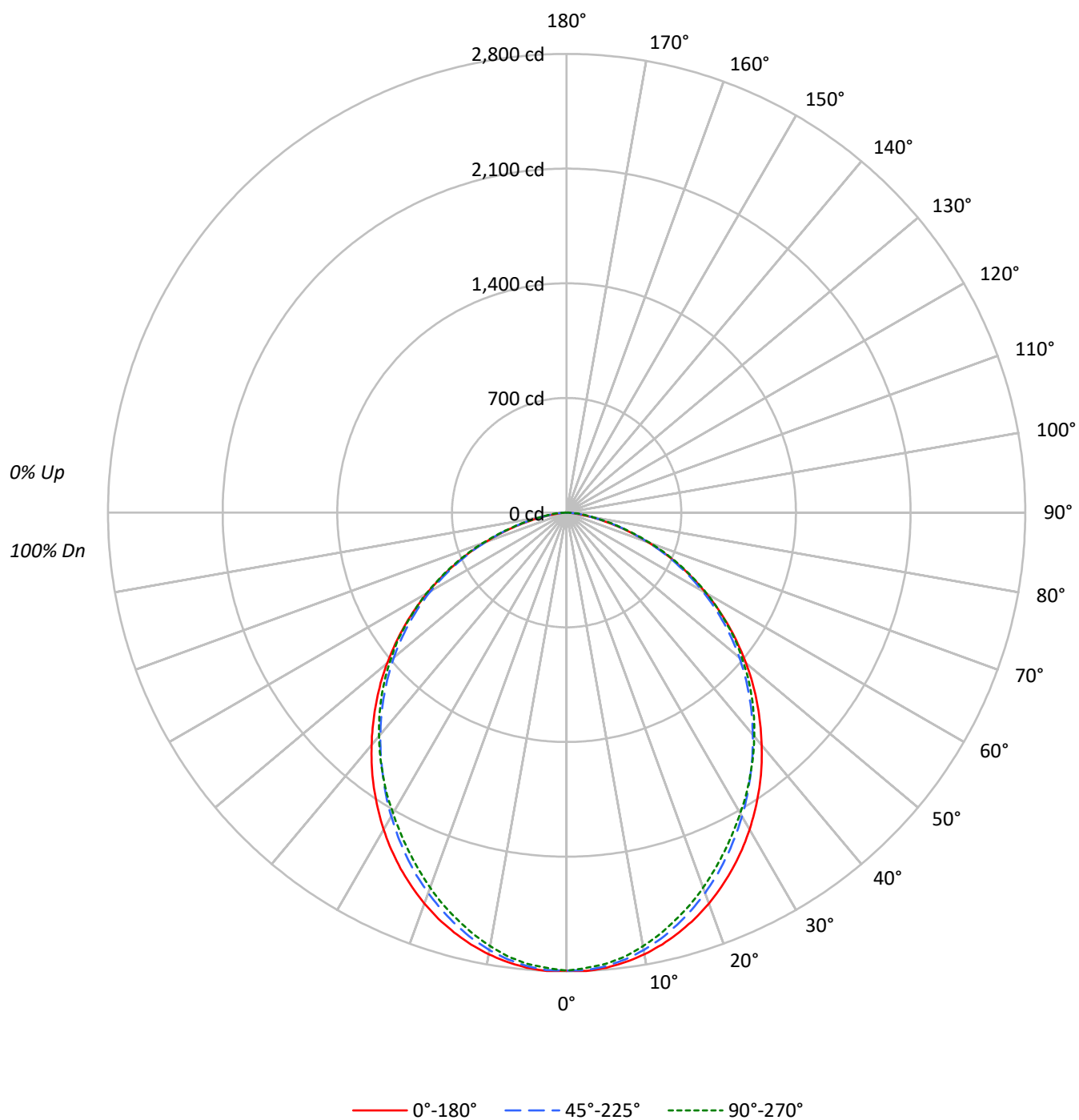
Lumens per Lamp: N/A
Luminaire Lumens: 6760.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
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	87		85
2	100	92	86	80	98	90	85	79	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	43		41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38		36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34		32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31		29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7522	7522	7522
5°	7532	7506	7468
10°	7480	7409	7342
15°	7389	7258	7168
20°	7271	7074	6977
25°	7120	6871	6771
30°	6941	6652	6585
35°	6739	6427	6422
40°	6508	6213	6259
45°	6258	5997	6089
50°	5987	5764	5880
55°	5673	5492	5633
60°	5296	5159	5326
65°	4821	4726	4881
70°	4172	4164	4282
75°	3332	3438	3497
80°	2270	2486	2607
85°	1183	1741	2272

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6258 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.7	3.9
10°-20°	734.0	10.9
20°-30°	1070.2	15.8
30°-40°	1237.7	18.3
40°-50°	1232.2	18.2
50°-60°	1059.4	15.7
60°-70°	742.6	11.0
70°-80°	351.4	5.2
80°-90°	69.9	1.0
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°	2066.8	30.6
0°-40°	3304.5	48.9
0°-60°	5596.1	82.8
0°-90°	6760.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6760.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2795	2795	2795	2795	2795	
5°	2788	2779	2779	2760	2764	265
15°	2652	2633	2605	2572	2573	748
25°	2398	2366	2314	2279	2280	1104
35°	2052	2009	1956	1946	1955	1282
45°	1644	1605	1576	1587	1600	1269
55°	1209	1177	1171	1191	1201	1080
65°	757	738	742	758	767	749
75°	320	313	331	335	336	345
85°	38	44	56	68	74	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2795.1	2795.1	2795.1	2795.1	2795.1
2.5°	2800.4	2792.8	2795.1	2781.1	2781.5
5°	2788.4	2779.4	2778.6	2760.4	2764.5
7.5°	2767.0	2755.9	2750.1	2729.0	2732.4
10°	2737.5	2723.2	2711.5	2685.2	2686.8
12.5°	2699.5	2682.8	2663.6	2632.9	2635.2
15°	2652.4	2633.0	2605.4	2572.1	2572.9
17.5°	2600.4	2578.3	2541.0	2505.4	2509.0
20°	2539.1	2514.0	2470.2	2433.1	2436.4
22.5°	2470.9	2442.1	2395.6	2358.4	2359.0
25°	2397.9	2365.6	2314.1	2279.2	2280.3
27.5°	2318.9	2282.7	2229.1	2196.9	2200.1
30°	2233.8	2195.4	2140.7	2114.3	2119.2
32.5°	2144.3	2104.2	2050.4	2031.8	2040.2
35°	2051.5	2008.7	1956.3	1945.5	1954.9
37.5°	1954.6	1912.4	1863.2	1860.1	1869.8
40°	1852.5	1812.0	1768.7	1770.9	1781.7
42.5°	1749.6	1710.0	1673.3	1680.9	1692.6
45°	1644.5	1605.0	1575.7	1587.4	1599.9
47.5°	1539.7	1500.3	1478.0	1492.9	1504.1
50°	1430.1	1393.6	1376.9	1394.2	1404.6
52.5°	1318.5	1284.6	1274.6	1294.0	1308.1
55°	1209.1	1176.7	1170.7	1190.7	1200.7
57.5°	1096.3	1069.1	1066.2	1085.0	1095.5
60°	984.0	958.4	958.5	978.4	989.6
62.5°	870.3	847.4	851.0	869.8	878.7
65°	757.2	738.1	742.2	757.7	766.6
67.5°	645.2	627.9	635.9	652.9	657.3
70°	530.2	517.0	529.2	542.0	544.3
72.5°	423.6	412.0	426.7	435.8	436.1
75°	320.5	313.3	330.7	334.8	336.3
77.5°	226.7	226.1	239.0	243.5	245.7
80°	146.5	151.4	160.4	167.4	168.2
82.5°	83.0	88.6	98.0	111.8	117.2
85°	38.3	44.2	56.4	68.4	73.6
87.5°	12.9	17.3	23.9	25.8	24.6
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	17.94	19.52	18.30	19.84	20.15	18.03	19.61	18.39	19.92	20.24
	3H	19.41	20.84	19.79	21.16	21.52	19.55	20.97	19.93	21.30	21.66
	4H	19.84	21.18	20.24	21.53	21.91	20.01	21.34	20.41	21.69	22.07
	6H	20.06	21.29	20.47	21.66	22.05	20.26	21.50	20.67	21.86	22.25
	8H	20.09	21.27	20.51	21.65	22.05	20.32	21.50	20.75	21.89	22.29
	12H	20.09	21.22	20.52	21.60	22.03	20.37	21.49	20.80	21.88	22.31
4H	2H	18.48	19.82	18.88	20.17	20.54	18.55	19.89	18.95	20.24	20.61
	3H	20.13	21.25	20.54	21.65	22.05	20.26	21.38	20.67	21.78	22.18
	4H	20.65	21.65	21.08	22.07	22.50	20.82	21.82	21.25	22.24	22.68
	6H	20.94	21.82	21.40	22.26	22.72	21.16	22.04	21.62	22.48	22.93
	8H	20.99	21.81	21.45	22.25	22.72	21.25	22.07	21.72	22.51	22.98
	12H	21.01	21.74	21.49	22.21	22.68	21.32	22.05	21.81	22.53	23.00
8H	4H	20.85	21.66	21.31	22.11	22.57	21.00	21.82	21.46	22.26	22.73
	6H	21.20	21.88	21.70	22.36	22.84	21.41	22.09	21.91	22.58	23.05
	8H	21.28	21.88	21.79	22.39	22.88	21.55	22.15	22.06	22.66	23.14
	12H	21.32	21.85	21.83	22.34	22.90	21.66	22.20	22.17	22.69	23.25
12H	4H	20.85	21.58	21.33	22.06	22.53	21.00	21.73	21.48	22.21	22.68
	6H	21.21	21.81	21.72	22.32	22.81	21.41	22.02	21.93	22.53	23.01
	8H	21.32	21.85	21.83	22.34	22.91	21.59	22.12	22.09	22.61	23.17