

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: P1498877

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498877
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-2-120-3STD-STD-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

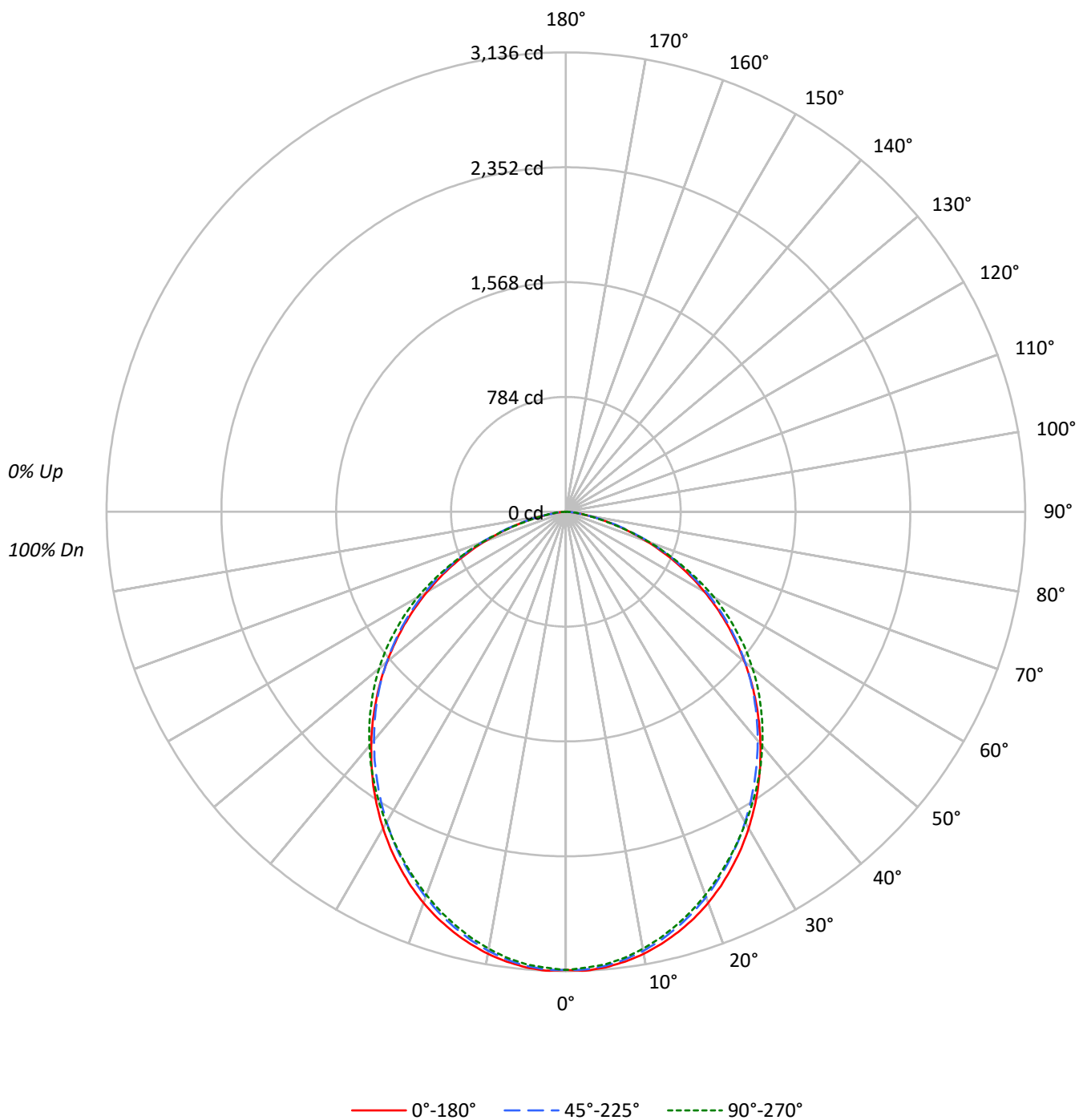
Lumens per Lamp: N/A
Luminaire Lumens: 7696.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 87.1
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	88	88	86
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	40
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	38	38	36
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	34	34	32
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8418	8418	8418
5°	8433	8406	8378
10°	8374	8318	8277
15°	8273	8182	8137
20°	8137	8016	7972
25°	7959	7822	7790
30°	7755	7602	7622
35°	7524	7378	7480
40°	7263	7159	7330
45°	6979	6936	7163
50°	6669	6684	6967
55°	6320	6392	6681
60°	5886	6018	6299
65°	5347	5512	5636
70°	4605	4790	4755
75°	3660	3805	3558
80°	2462	2497	2321
85°	1266	1568	1908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	3.8
10°-20°	827.5	10.8
20°-30°	1215.1	15.8
30°-40°	1414.5	18.4
40°-50°	1417.5	18.4
50°-60°	1225.0	15.9
60°-70°	852.5	11.1
70°-80°	383.0	5.0
80°-90°	66.5	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°	2337.1	30.4
0°-40°	3751.6	48.7
0°-60°	6394.1	83.1
0°-90°	7696.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3128	3128	3128	3128	3128	
5°	3122	3108	3112	3097	3102	296
15°	2970	2950	2937	2916	2921	837
25°	2680	2656	2634	2614	2624	1234
35°	2290	2261	2246	2255	2277	1431
45°	1834	1813	1823	1859	1882	1415
55°	1347	1332	1362	1408	1424	1202
65°	840	837	866	882	885	830
75°	352	355	366	352	342	378
85°	41	44	51	58	62	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3128.1	3128.1	3128.1	3128.1	3128.1
2.5°	3135.9	3123.0	3128.1	3116.8	3114.6
5°	3121.8	3108.5	3111.7	3097.2	3101.5
7.5°	3097.6	3083.4	3083.0	3067.1	3071.0
10°	3064.7	3048.1	3044.1	3026.1	3029.0
12.5°	3020.9	3003.7	2995.5	2974.8	2979.8
15°	2969.5	2950.5	2936.9	2916.5	2920.9
17.5°	2910.0	2888.9	2872.5	2848.8	2856.2
20°	2841.5	2818.9	2799.2	2774.1	2783.7
22.5°	2765.0	2741.1	2718.7	2696.0	2705.7
25°	2680.5	2656.4	2634.3	2613.7	2623.8
27.5°	2591.9	2565.0	2542.7	2527.8	2539.1
30°	2495.9	2468.0	2446.4	2437.1	2453.1
32.5°	2394.5	2367.0	2347.8	2347.8	2366.3
35°	2290.4	2261.4	2245.8	2255.3	2277.0
37.5°	2178.4	2153.9	2143.2	2162.2	2184.2
40°	2067.5	2042.0	2038.1	2063.4	2086.6
42.5°	1952.6	1930.1	1931.5	1964.2	1985.8
45°	1833.9	1813.0	1822.6	1858.6	1882.2
47.5°	1717.1	1695.6	1711.6	1751.1	1776.5
50°	1593.1	1575.5	1596.6	1640.9	1664.1
52.5°	1469.6	1452.9	1480.3	1527.0	1549.6
55°	1347.0	1331.7	1362.4	1407.8	1424.0
57.5°	1220.0	1211.2	1243.0	1282.8	1299.8
60°	1093.6	1086.1	1118.2	1155.1	1170.4
62.5°	967.1	962.6	993.3	1023.2	1028.4
65°	839.8	837.0	865.7	881.8	885.1
67.5°	711.0	711.9	738.1	746.5	746.2
70°	585.3	584.8	608.8	611.1	604.3
72.5°	463.4	466.4	482.0	478.4	467.5
75°	352.0	354.9	366.0	352.5	342.2
77.5°	248.4	250.9	255.9	240.9	234.5
80°	158.9	163.9	161.1	154.1	149.8
82.5°	88.9	93.9	91.5	98.4	101.7
85°	41.0	44.0	50.8	58.5	61.8
87.5°	14.0	16.7	20.8	22.3	20.8
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	18.33	19.92	18.70	20.23	20.55	18.74	20.33	19.11	20.64	20.95
	3H	19.78	21.20	20.16	21.53	21.89	20.15	21.58	20.53	21.90	22.26
	4H	20.20	21.54	20.60	21.88	22.26	20.52	21.86	20.92	22.20	22.58
	6H	20.40	21.64	20.81	22.00	22.39	20.67	21.91	21.08	22.27	22.67
	8H	20.42	21.60	20.85	21.99	22.39	20.70	21.88	21.12	22.27	22.67
	12H	20.42	21.55	20.85	21.93	22.36	20.71	21.84	21.14	22.22	22.65
4H	2H	18.92	20.26	19.32	20.61	20.98	19.25	20.59	19.65	20.94	21.31
	3H	20.54	21.65	20.95	22.05	22.45	20.85	21.96	21.26	22.36	22.76
	4H	21.04	22.04	21.48	22.46	22.90	21.30	22.30	21.73	22.71	23.15
	6H	21.32	22.19	21.78	22.63	23.09	21.52	22.39	21.98	22.83	23.29
	8H	21.36	22.17	21.82	22.61	23.08	21.56	22.37	22.02	22.82	23.28
	12H	21.37	22.10	21.85	22.57	23.04	21.59	22.32	22.07	22.80	23.27
8H	4H	21.23	22.04	21.69	22.48	22.95	21.46	22.27	21.92	22.71	23.18
	6H	21.55	22.22	22.05	22.71	23.19	21.73	22.40	22.22	22.89	23.36
	8H	21.62	22.22	22.13	22.73	23.21	21.79	22.39	22.31	22.90	23.39
	12H	21.65	22.18	22.16	22.67	23.23	21.86	22.39	22.36	22.88	23.44
12H	4H	21.22	21.95	21.70	22.43	22.90	21.45	22.18	21.93	22.66	23.13
	6H	21.55	22.15	22.06	22.66	23.14	21.72	22.32	22.23	22.83	23.32
	8H	21.64	22.17	22.15	22.66	23.23	21.82	22.35	22.33	22.84	23.40