

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: P1499138

Luminaire Tested: MAE-G-4-120-1STD-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-4-120-1STD-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

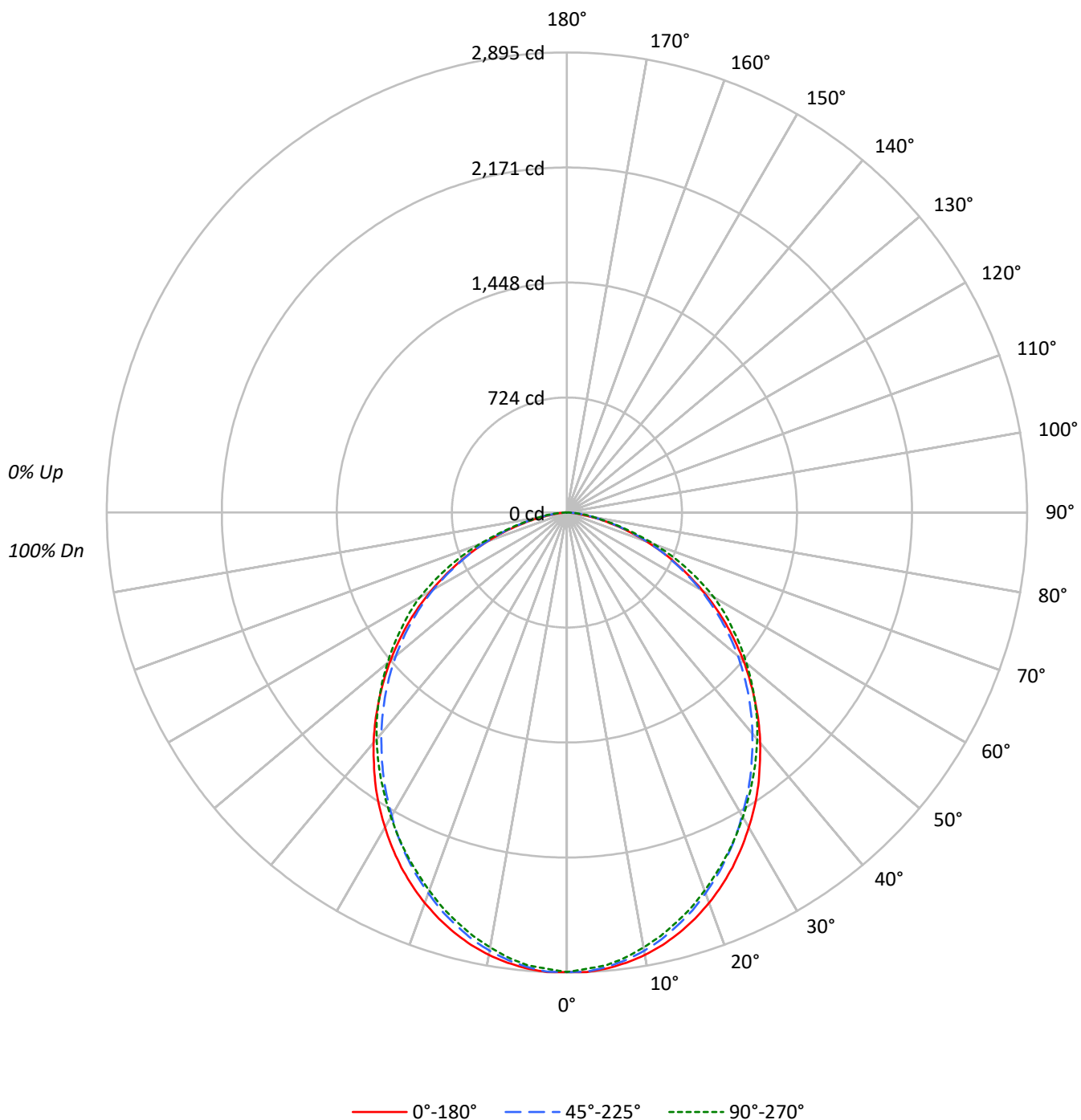
Lumens per Lamp: N/A
Luminaire Lumens: 6965.0 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 82.3
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
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	80	98	90	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	57		67	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	45	39	51	44	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3891	3891	3891
5°	3891	3878	3862
10°	3863	3826	3798
15°	3813	3748	3717
20°	3744	3650	3626
25°	3658	3544	3532
30°	3555	3423	3439
35°	3447	3310	3352
40°	3322	3189	3272
45°	3183	3068	3180
50°	3035	2939	3085
55°	2864	2785	2979
60°	2652	2608	2878
65°	2409	2370	2644
70°	2086	2113	2308
75°	1659	1763	1821
80°	1141	1313	1374
85°	634	969	1230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3183 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	271.6	3.9
10°-20°	759.1	10.9
20°-30°	1106.1	15.9
30°-40°	1276.5	18.3
40°-50°	1266.8	18.2
50°-60°	1086.8	15.6
60°-70°	762.8	11.0
70°-80°	360.8	5.2
80°-90°	74.6	1.1
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°	2136.8	30.7
0°-40°	3413.3	49.0
0°-60°	5766.8	82.8
0°-90°	6965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2892	2892	2892	2892	2892	
5°	2881	2879	2871	2853	2859	273
15°	2737	2724	2690	2663	2668	771
25°	2464	2434	2387	2369	2379	1134
35°	2099	2059	2015	2021	2041	1311
45°	1673	1638	1613	1647	1671	1290
55°	1221	1189	1187	1237	1270	1090
65°	757	732	744	804	831	749
75°	319	309	339	354	350	345
85°	41	49	63	75	80	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2891.6	2891.6	2891.6	2891.6	2891.6
2.5°	2894.9	2897.1	2891.6	2871.0	2873.8
5°	2881.2	2878.6	2871.1	2853.4	2859.4
7.5°	2858.0	2854.5	2841.0	2820.6	2824.8
10°	2827.1	2820.2	2800.7	2775.4	2779.6
12.5°	2787.3	2778.6	2751.3	2723.6	2728.5
15°	2737.2	2724.4	2690.4	2662.8	2668.3
17.5°	2679.6	2666.0	2625.5	2595.8	2606.1
20°	2614.5	2595.4	2549.5	2522.5	2532.3
22.5°	2543.0	2518.7	2471.3	2446.6	2455.7
25°	2464.3	2434.4	2387.2	2368.6	2379.0
27.5°	2379.1	2346.7	2299.5	2283.6	2298.3
30°	2288.5	2253.9	2203.5	2197.3	2213.3
32.5°	2195.9	2159.4	2110.4	2111.7	2127.8
35°	2098.6	2058.6	2015.0	2021.2	2040.7
37.5°	1994.3	1956.5	1914.2	1933.5	1952.3
40°	1891.5	1852.2	1815.5	1841.0	1862.7
42.5°	1784.5	1747.3	1715.3	1745.1	1770.0
45°	1672.6	1638.3	1612.6	1647.0	1671.3
47.5°	1560.8	1526.4	1509.0	1546.9	1574.6
50°	1449.8	1417.5	1404.0	1446.6	1473.8
52.5°	1334.0	1302.9	1297.8	1341.7	1374.4
55°	1220.7	1189.1	1187.2	1236.7	1270.0
57.5°	1104.1	1080.1	1079.5	1133.7	1173.9
60°	985.6	961.3	969.1	1032.8	1069.4
62.5°	870.3	846.1	855.1	925.4	949.5
65°	756.6	732.3	744.4	804.4	830.6
67.5°	644.9	621.8	642.8	697.1	713.5
70°	530.3	510.1	537.0	580.8	586.8
72.5°	423.4	405.9	438.1	465.3	464.4
75°	319.2	309.1	339.2	353.8	350.3
77.5°	228.1	222.8	248.5	255.6	252.7
80°	147.3	150.8	169.5	174.1	177.3
82.5°	85.6	92.3	106.6	122.1	125.5
85°	41.1	49.2	62.8	75.1	79.7
87.5°	14.3	19.7	25.9	28.6	27.9
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	15.49	17.08	15.86	17.39	17.70	15.86	17.44	16.22	17.75	18.07
	3H	16.93	18.35	17.30	18.68	19.04	17.44	18.87	17.82	19.19	19.56
	4H	17.35	18.69	17.75	19.03	19.41	17.90	19.23	18.30	19.58	19.96
	6H	17.56	18.80	17.97	19.16	19.55	18.14	19.37	18.55	19.74	20.13
	8H	17.59	18.77	18.02	19.16	19.56	18.20	19.38	18.63	19.77	20.17
	12H	17.60	18.72	18.03	19.11	19.54	18.25	19.38	18.68	19.76	20.19
4H	2H	16.03	17.36	16.43	17.71	18.09	16.32	17.66	16.72	18.01	18.39
	3H	17.64	18.76	18.05	19.16	19.56	18.11	19.22	18.52	19.62	20.02
	4H	18.15	19.15	18.58	19.56	20.00	18.67	19.67	19.10	20.09	20.52
	6H	18.44	19.31	18.89	19.75	20.21	19.00	19.88	19.46	20.32	20.77
	8H	18.49	19.30	18.95	19.75	20.21	19.10	19.91	19.56	20.36	20.82
	12H	18.51	19.24	18.99	19.72	20.19	19.17	19.90	19.66	20.38	20.85
8H	4H	18.36	19.18	18.83	19.62	20.09	18.84	19.65	19.30	20.09	20.56
	6H	18.72	19.39	19.21	19.88	20.36	19.24	19.91	19.74	20.40	20.88
	8H	18.80	19.40	19.31	19.91	20.40	19.38	19.98	19.89	20.49	20.98
	12H	18.85	19.38	19.36	19.87	20.43	19.51	20.04	20.02	20.53	21.10
12H	4H	18.37	19.10	18.85	19.58	20.05	18.83	19.56	19.32	20.04	20.51
	6H	18.73	19.33	19.24	19.84	20.33	19.24	19.85	19.75	20.35	20.84
	8H	18.85	19.38	19.36	19.87	20.44	19.42	19.96	19.93	20.45	21.01