

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: P1499027

Luminaire Tested: MAE-G-4-120-1LO-HI-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499027
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-4-120-1LO-HI-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

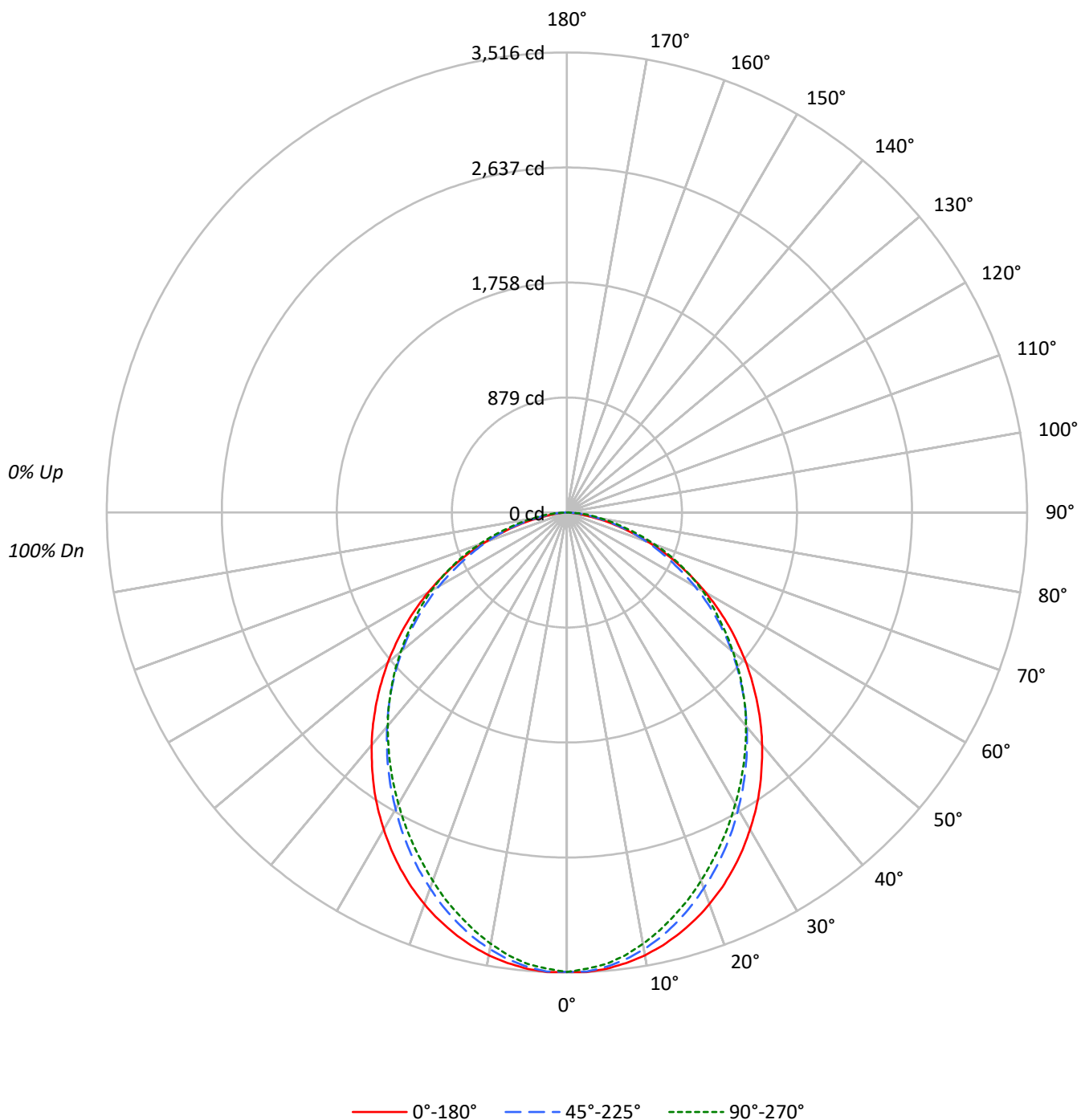
Lumens per Lamp: N/A
Luminaire Lumens: 8316.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 112.9
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	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	58	82	71	63	57	69	62	56		66	60	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	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4725	4725	4725
5°	4727	4707	4678
10°	4695	4632	4574
15°	4638	4516	4436
20°	4561	4376	4289
25°	4463	4228	4141
30°	4347	4066	3997
35°	4221	3912	3865
40°	4076	3755	3740
45°	3915	3599	3606
50°	3743	3437	3467
55°	3541	3251	3332
60°	3296	3040	3226
65°	3008	2782	3059
70°	2618	2536	2819
75°	2101	2225	2459
80°	1465	1811	2087
85°	826	1442	1936

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3915 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	329.2	4.0
10°-20°	914.2	11.0
20°-30°	1321.6	15.9
30°-40°	1513.9	18.2
40°-50°	1492.0	17.9
50°-60°	1273.5	15.3
60°-70°	905.3	10.9
70°-80°	458.8	5.5
80°-90°	107.4	1.3
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°	2565.0	30.8
0°-40°	4079.0	49.0
0°-60°	6844.5	82.3
0°-90°	8316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8316.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3512	3512	3512	3512	3512	
5°	3500	3498	3485	3455	3464	332
15°	3330	3306	3242	3183	3184	938
25°	3006	2951	2848	2788	2789	1384
35°	2570	2492	2382	2347	2353	1606
45°	2058	1982	1892	1887	1895	1587
55°	1510	1440	1386	1400	1420	1348
65°	945	889	874	934	961	934
75°	404	380	428	466	473	436
85°	54	67	93	116	125	75
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3511.6	3511.6	3511.6	3511.6	3511.6
2.5°	3515.5	3519.0	3511.6	3483.1	3489.5
5°	3500.2	3497.6	3485.0	3455.4	3463.8
7.5°	3472.7	3466.9	3444.4	3408.3	3413.4
10°	3436.3	3424.8	3390.2	3344.4	3347.6
12.5°	3388.7	3372.2	3323.0	3269.3	3271.8
15°	3329.6	3306.4	3242.2	3183.0	3184.5
17.5°	3261.9	3233.6	3154.7	3090.1	3096.0
20°	3185.3	3147.9	3056.1	2992.3	2995.6
22.5°	3100.1	3053.9	2956.1	2892.1	2892.2
25°	3006.5	2951.0	2847.8	2788.3	2789.0
27.5°	2905.9	2844.3	2735.4	2678.9	2682.7
30°	2798.2	2731.2	2616.8	2568.8	2572.8
32.5°	2687.2	2615.1	2501.1	2460.0	2464.0
35°	2570.1	2492.1	2381.8	2346.8	2353.0
37.5°	2445.2	2368.9	2258.9	2236.5	2241.4
40°	2320.9	2242.1	2137.6	2121.6	2129.4
42.5°	2191.6	2114.3	2015.9	2005.0	2014.7
45°	2057.7	1981.7	1891.6	1886.7	1895.2
47.5°	1922.3	1847.8	1768.0	1767.0	1779.2
50°	1788.0	1715.3	1641.8	1646.9	1656.5
52.5°	1645.8	1576.9	1515.6	1523.0	1539.6
55°	1509.7	1439.8	1386.0	1400.5	1420.3
57.5°	1368.1	1307.2	1258.9	1283.4	1310.9
60°	1224.9	1165.8	1129.6	1169.9	1198.8
62.5°	1083.7	1026.4	999.8	1054.9	1080.1
65°	944.9	889.3	873.8	934.2	960.9
67.5°	805.8	756.2	759.0	823.2	843.0
70°	665.6	620.6	644.7	702.7	716.5
72.5°	532.5	495.7	536.3	583.7	591.6
75°	404.1	379.8	428.0	465.7	473.0
77.5°	289.9	277.2	325.7	356.6	364.9
80°	189.1	192.9	233.7	260.2	269.3
82.5°	110.7	122.0	155.1	184.7	194.2
85°	53.5	67.0	93.4	115.7	125.4
87.5°	18.2	27.3	39.5	44.0	42.7
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	16.23	17.82	16.60	18.13	18.44	16.08	17.67	16.45	17.98	18.30
	3H	17.70	19.13	18.08	19.46	19.82	17.83	19.25	18.20	19.58	19.94
	4H	18.15	19.49	18.54	19.83	20.21	18.41	19.75	18.81	20.10	20.48
	6H	18.38	19.62	18.79	19.98	20.37	18.81	20.05	19.22	20.41	20.80
	8H	18.41	19.60	18.84	19.99	20.39	18.93	20.11	19.36	20.50	20.90
	12H	18.42	19.55	18.85	19.94	20.37	19.02	20.16	19.45	20.54	20.97
4H	2H	16.72	18.06	17.12	18.41	18.78	16.60	17.94	17.00	18.29	18.66
	3H	18.38	19.50	18.79	19.90	20.30	18.55	19.67	18.96	20.07	20.47
	4H	18.91	19.92	19.34	20.33	20.77	19.26	20.27	19.69	20.68	21.12
	6H	19.23	20.10	19.68	20.54	21.00	19.77	20.65	20.23	21.09	21.55
	8H	19.29	20.11	19.75	20.55	21.02	19.94	20.76	20.40	21.20	21.67
	12H	19.31	20.05	19.80	20.53	21.00	20.08	20.81	20.56	21.29	21.76
8H	4H	19.15	19.97	19.61	20.41	20.88	19.47	20.29	19.93	20.73	21.20
	6H	19.54	20.22	20.03	20.71	21.18	20.07	20.75	20.57	21.24	21.72
	8H	19.64	20.24	20.15	20.75	21.24	20.31	20.92	20.82	21.42	21.91
	12H	19.70	20.23	20.20	20.72	21.29	20.51	21.05	21.02	21.54	22.11
12H	4H	19.17	19.90	19.65	20.38	20.85	19.47	20.20	19.95	20.68	21.15
	6H	19.57	20.18	20.08	20.69	21.18	20.09	20.70	20.60	21.20	21.69
	8H	19.71	20.25	20.22	20.74	21.30	20.37	20.91	20.88	21.40	21.96