

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: P1498193

Luminaire Tested: MAE-G-2-120-1LO-STD-30-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498193
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-2-120-1LO-STD-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

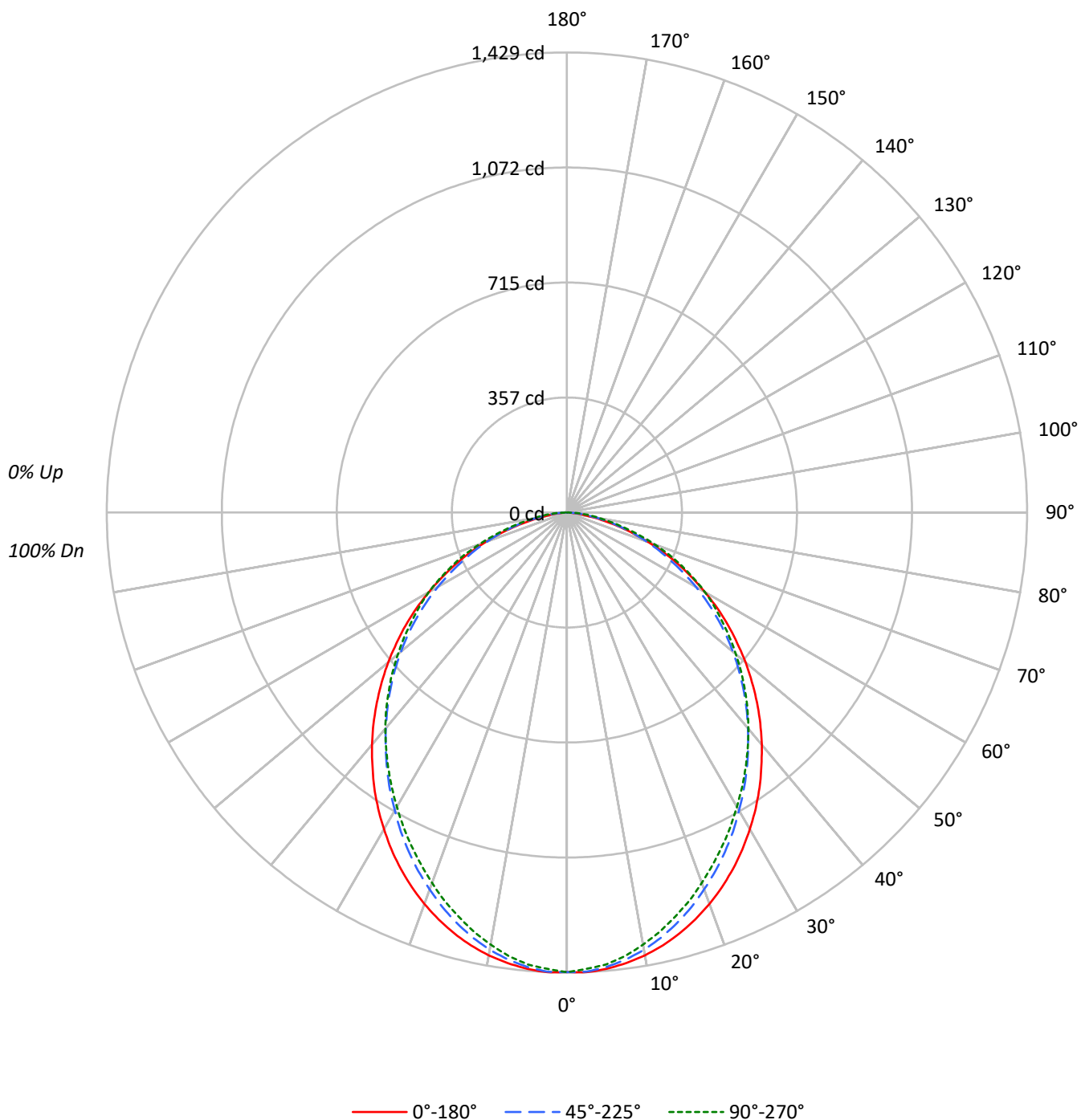
Lumens per Lamp: N/A
Luminaire Lumens: 3393.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.11 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47
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	73	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°	3842	3842	3842
5°	3844	3828	3806
10°	3817	3769	3725
15°	3770	3678	3620
20°	3706	3568	3507
25°	3626	3450	3392
30°	3530	3322	3281
35°	3426	3199	3178
40°	3307	3073	3081
45°	3175	2948	2976
50°	3033	2817	2867
55°	2869	2666	2758
60°	2667	2493	2669
65°	2432	2278	2513
70°	2115	2067	2290
75°	1694	1795	1958
80°	1178	1435	1626
85°	664	1127	1501

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3175 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.9	3.9
10°-20°	372.3	11.0
20°-30°	539.1	15.9
30°-40°	618.6	18.2
40°-50°	610.5	18.0
50°-60°	521.7	15.4
60°-70°	369.8	10.9
70°-80°	184.8	5.4
80°-90°	42.2	1.2
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°	1045.4	30.8
0°-40°	1663.9	49.0
0°-60°	2796.2	82.4
0°-90°	3393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1423	1422	1417	1406	1409	135
15°	1353	1344	1320	1298	1299	381
25°	1221	1200	1162	1141	1142	562
35°	1043	1014	974	963	967	652
45°	834	806	775	777	782	643
55°	612	586	568	578	588	546
65°	382	362	358	383	395	378
75°	163	154	173	186	188	176
85°	22	27	36	45	49	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1427.7	1427.7	1427.7	1427.7	1427.7
2.5°	1429.3	1430.6	1427.7	1416.4	1418.7
5°	1422.9	1421.8	1417.0	1405.6	1408.9
7.5°	1411.7	1409.5	1400.8	1387.1	1389.1
10°	1396.8	1392.4	1379.3	1361.9	1363.3
12.5°	1377.4	1371.2	1352.5	1332.4	1333.7
15°	1353.2	1344.4	1320.3	1298.3	1299.4
17.5°	1325.5	1315.0	1285.4	1261.5	1264.6
20°	1294.1	1280.1	1245.9	1222.6	1224.6
22.5°	1259.3	1242.0	1205.6	1182.5	1183.5
25°	1221.1	1200.2	1162.1	1141.1	1142.4
27.5°	1180.0	1156.8	1117.0	1097.1	1099.8
30°	1136.1	1110.9	1069.0	1052.9	1055.8
32.5°	1090.7	1063.8	1022.1	1009.0	1011.9
35°	1043.0	1013.9	973.8	963.3	967.3
37.5°	992.1	963.8	923.9	918.7	922.2
40°	941.5	912.2	874.7	872.2	877.0
42.5°	888.9	860.2	825.3	824.9	830.5
45°	834.3	806.4	774.7	776.7	781.9
47.5°	779.3	751.7	724.3	727.8	734.7
50°	724.6	697.8	672.9	678.9	684.8
52.5°	666.9	641.6	621.3	628.2	636.9
55°	611.5	585.7	568.3	578.0	587.8
57.5°	553.9	531.8	516.2	529.7	542.7
60°	495.6	474.0	463.2	482.7	495.9
62.5°	438.3	417.4	409.7	434.8	445.3
65°	382.0	361.5	357.8	383.4	394.7
67.5°	325.7	307.3	310.4	336.6	344.7
70°	268.8	252.2	262.7	285.9	291.0
72.5°	215.0	201.3	217.7	235.7	238.2
75°	162.9	154.0	172.6	186.3	188.3
77.5°	116.7	112.2	130.3	141.0	143.4
80°	76.0	77.6	92.6	101.6	104.9
82.5°	44.4	48.7	60.8	72.0	75.4
85°	21.5	26.7	36.5	44.9	48.6
87.5°	7.4	10.9	15.3	17.1	16.6
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	15.50	17.08	15.87	17.40	17.71	15.46	17.05	15.83	17.36	17.67
	3H	16.96	18.39	17.34	18.72	19.08	17.17	18.60	17.55	18.92	19.28
	4H	17.40	18.74	17.80	19.09	19.47	17.73	19.07	18.13	19.41	19.79
	6H	17.63	18.87	18.04	19.23	19.62	18.08	19.32	18.50	19.69	20.08
	8H	17.66	18.85	18.09	19.24	19.64	18.20	19.38	18.62	19.77	20.17
	12H	17.67	18.80	18.10	19.18	19.61	18.28	19.41	18.71	19.79	20.22
4H	2H	16.00	17.34	16.39	17.68	18.06	15.96	17.30	16.36	17.65	18.03
	3H	17.65	18.77	18.06	19.16	19.57	17.88	19.00	18.29	19.40	19.80
	4H	18.17	19.18	18.60	19.59	20.03	18.56	19.57	18.99	19.98	20.42
	6H	18.48	19.36	18.94	19.80	20.26	19.03	19.91	19.48	20.35	20.80
	8H	18.54	19.36	19.00	19.80	20.27	19.18	20.00	19.64	20.44	20.91
	12H	18.57	19.30	19.05	19.78	20.25	19.30	20.04	19.78	20.51	20.98
8H	4H	18.41	19.23	18.87	19.67	20.13	18.75	19.57	19.22	20.02	20.48
	6H	18.79	19.47	19.28	19.96	20.43	19.32	19.99	19.81	20.48	20.96
	8H	18.88	19.49	19.39	20.00	20.48	19.53	20.14	20.04	20.65	21.13
	12H	18.94	19.48	19.45	19.97	20.53	19.72	20.26	20.23	20.75	21.31
12H	4H	18.42	19.16	18.90	19.63	20.10	18.76	19.49	19.24	19.97	20.44
	6H	18.82	19.43	19.33	19.93	20.42	19.33	19.94	19.84	20.44	20.93
	8H	18.95	19.49	19.46	19.98	20.54	19.59	20.12	20.10	20.62	21.18