

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: P1498274

Luminaire Tested: MAE-G-2-120-1STD-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498274
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-2-120-1STD-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

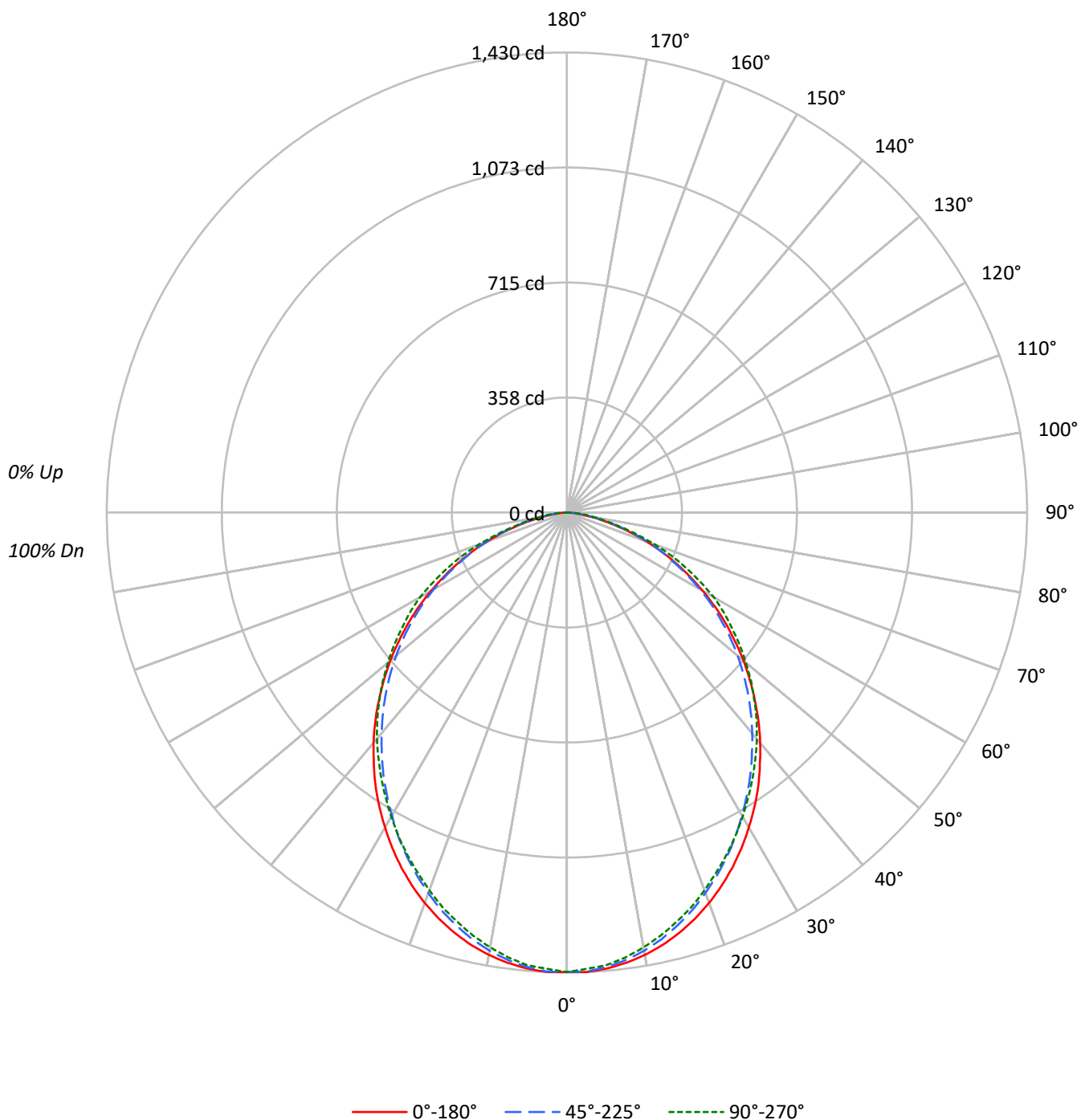
Lumens per Lamp: N/A
Luminaire Lumens: 3438.1 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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	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	87	87	87	85
2	100	92	86	80	98	90	85	79	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	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3843	3843	3843
5°	3844	3830	3815
10°	3816	3779	3750
15°	3767	3701	3669
20°	3698	3604	3578
25°	3614	3499	3485
30°	3513	3379	3392
35°	3406	3266	3305
40°	3283	3146	3225
45°	3145	3027	3134
50°	3000	2899	3039
55°	2830	2747	2935
60°	2622	2573	2835
65°	2382	2338	2608
70°	2063	2086	2282
75°	1642	1745	1806
80°	1130	1305	1368
85°	630	966	1226

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.9
10°-20°	374.8	10.9
20°-30°	546.0	15.9
30°-40°	630.0	18.3
40°-50°	625.0	18.2
50°-60°	536.1	15.6
60°-70°	376.4	10.9
70°-80°	178.5	5.2
80°-90°	37.1	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°	1054.9	30.7
0°-40°	1684.9	49.0
0°-60°	2846.0	82.8
0°-90°	3438.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3438.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1428	1428	1428	1428	1428	
5°	1423	1422	1418	1409	1412	135
15°	1352	1346	1328	1314	1317	381
25°	1217	1202	1178	1168	1174	560
35°	1037	1017	994	997	1006	648
45°	826	809	796	812	824	638
55°	603	587	586	609	626	539
65°	374	362	367	397	410	370
75°	158	153	168	175	174	171
85°	20	24	31	38	40	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1428.2	1428.2	1428.2	1428.2	1428.2
2.5°	1429.9	1430.9	1428.2	1418.0	1419.4
5°	1423.1	1421.8	1418.0	1409.1	1412.2
7.5°	1411.6	1409.9	1403.1	1392.9	1394.9
10°	1396.4	1392.9	1383.1	1370.4	1372.4
12.5°	1376.7	1372.3	1358.6	1344.7	1347.0
15°	1352.0	1345.6	1328.5	1314.5	1317.1
17.5°	1323.6	1316.7	1296.3	1281.2	1286.2
20°	1291.4	1281.8	1258.6	1244.8	1249.6
22.5°	1256.2	1244.0	1220.0	1207.3	1211.6
25°	1217.3	1202.2	1178.3	1168.5	1173.6
27.5°	1175.3	1158.9	1134.9	1126.6	1133.6
30°	1130.5	1113.1	1087.5	1083.9	1091.5
32.5°	1084.8	1066.5	1041.4	1041.5	1049.2
35°	1036.9	1016.6	994.3	996.8	1006.1
37.5°	985.4	966.3	944.5	953.4	962.4
40°	934.5	914.7	895.7	907.7	918.0
42.5°	881.7	862.8	846.3	860.2	872.3
45°	826.5	809.1	795.5	811.9	823.5
47.5°	771.3	753.9	744.3	762.4	775.8
50°	716.5	700.0	692.5	712.9	726.0
52.5°	659.2	643.4	640.1	661.2	677.0
55°	603.3	587.2	585.6	609.4	625.5
57.5°	545.7	533.4	532.4	558.6	578.2
60°	487.2	474.8	478.0	508.9	526.7
62.5°	430.2	417.9	421.8	456.1	467.9
65°	374.1	361.6	367.2	396.7	409.6
67.5°	318.9	307.2	317.2	344.0	352.1
70°	262.2	252.0	265.1	286.8	290.0
72.5°	209.4	200.5	216.5	230.1	229.8
75°	157.9	152.8	167.8	175.3	173.7
77.5°	112.8	110.1	123.1	127.0	125.6
80°	72.9	74.6	84.2	86.7	88.3
82.5°	42.4	45.8	53.0	60.8	62.6
85°	20.4	24.4	31.3	37.5	39.7
87.5°	7.1	9.8	12.9	14.3	13.9
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	15.45	17.04	15.82	17.35	17.66	15.80	17.38	16.16	17.70	18.01
	3H	16.89	18.31	17.27	18.64	19.00	17.39	18.82	17.77	19.14	19.50
	4H	17.31	18.65	17.71	19.00	19.37	17.85	19.19	18.25	19.53	19.91
	6H	17.52	18.76	17.94	19.13	19.52	18.09	19.33	18.51	19.70	20.09
	8H	17.56	18.73	17.98	19.12	19.52	18.16	19.34	18.59	19.73	20.13
	12H	17.56	18.69	17.99	19.07	19.50	18.21	19.34	18.64	19.72	20.15
4H	2H	15.98	17.32	16.38	17.67	18.05	16.27	17.61	16.67	17.95	18.33
	3H	17.60	18.72	18.01	19.12	19.52	18.06	19.17	18.47	19.57	19.97
	4H	18.11	19.11	18.54	19.53	19.96	18.62	19.63	19.06	20.04	20.48
	6H	18.40	19.27	18.86	19.71	20.17	18.96	19.84	19.42	20.28	20.74
	8H	18.45	19.27	18.91	19.71	20.18	19.06	19.88	19.52	20.32	20.79
	12H	18.47	19.20	18.95	19.68	20.15	19.14	19.87	19.62	20.35	20.82
8H	4H	18.33	19.14	18.79	19.58	20.05	18.79	19.61	19.25	20.05	20.52
	6H	18.68	19.35	19.17	19.84	20.32	19.20	19.88	19.70	20.37	20.84
	8H	18.76	19.37	19.27	19.87	20.36	19.35	19.95	19.86	20.46	20.95
	12H	18.81	19.34	19.32	19.83	20.40	19.48	20.01	19.99	20.50	21.06
12H	4H	18.33	19.06	18.81	19.54	20.01	18.79	19.52	19.27	20.00	20.47
	6H	18.69	19.30	19.21	19.81	20.29	19.20	19.81	19.72	20.32	20.80
	8H	18.81	19.35	19.32	19.84	20.40	19.39	19.92	19.90	20.41	20.98