

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: P1498637

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498637
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-2-120-3HI-HI-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

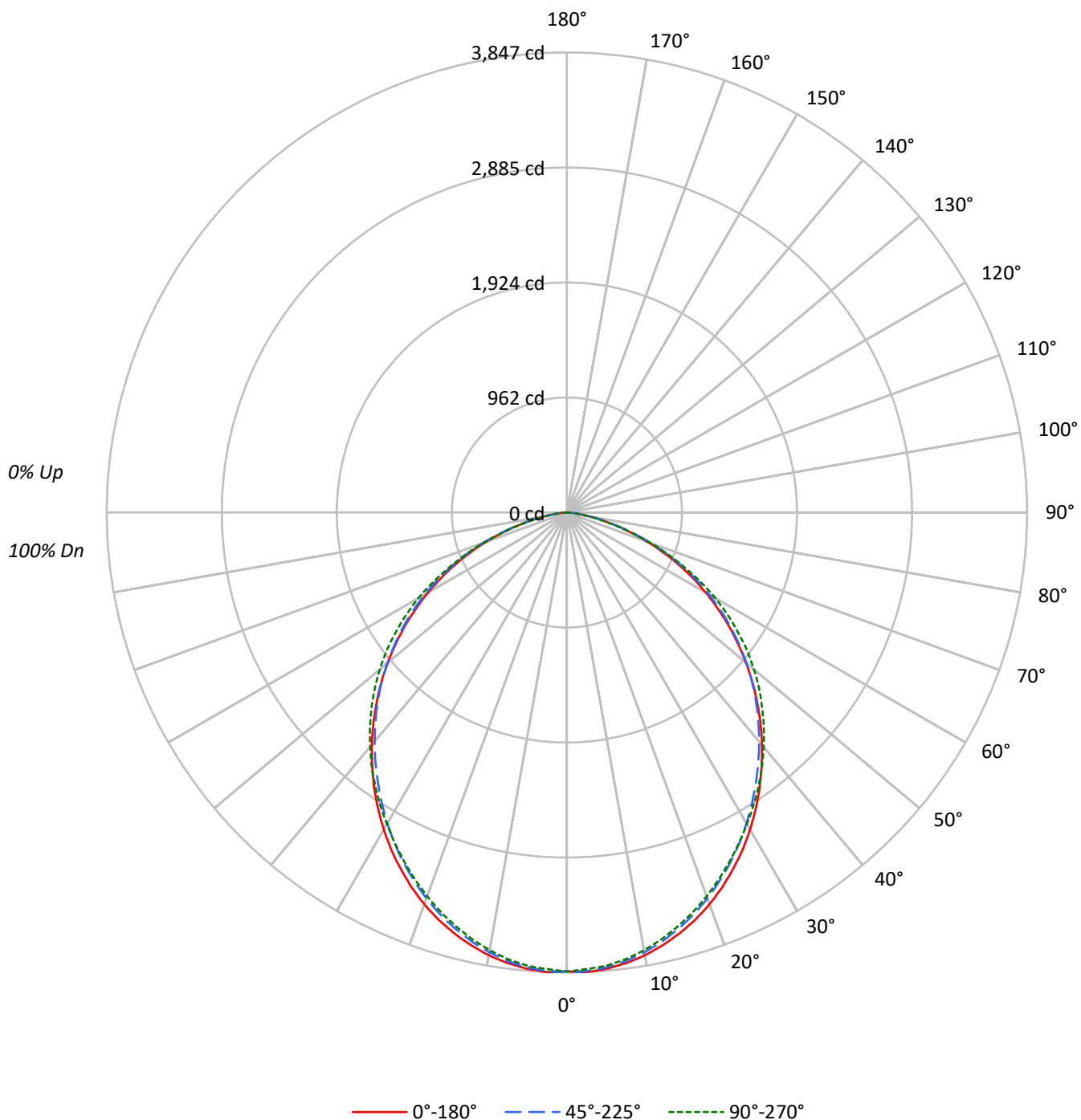
Lumens per Lamp: N/A
Luminaire Lumens: 9441.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 113
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	81	98	91	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	44	39	51	44	38		50	43	38		48
8	62	49	40	35	60	48	40	35	47	40	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10326	10326	10326
5°	10345	10312	10277
10°	10273	10204	10153
15°	10149	10037	9983
20°	9982	9834	9779
25°	9764	9595	9557
30°	9514	9325	9351
35°	9230	9050	9177
40°	8910	8783	8992
45°	8562	8509	8787
50°	8181	8200	8547
55°	7753	7841	8196
60°	7221	7382	7727
65°	6560	6762	6913
70°	5650	5876	5833
75°	4489	4667	4364
80°	3022	3062	2848
85°	1553	1920	2340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 8787 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.3	3.8
10°-20°	1015.1	10.8
20°-30°	1490.6	15.8
30°-40°	1735.3	18.4
40°-50°	1739.0	18.4
50°-60°	1502.7	15.9
60°-70°	1045.8	11.1
70°-80°	469.8	5.0
80°-90°	81.5	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°	2867.0	30.4
0°-40°	4602.3	48.7
0°-60°	7843.9	83.1
0°-90°	9441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9441.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3837	3837	3837	3837	3837	
5°	3830	3813	3817	3800	3805	363
15°	3643	3620	3603	3578	3583	1027
25°	3288	3259	3232	3206	3219	1514
35°	2810	2774	2755	2767	2793	1755
45°	2250	2224	2236	2280	2309	1736
55°	1652	1634	1671	1727	1747	1475
65°	1030	1027	1062	1082	1086	1018
75°	432	435	449	432	420	464
85°	50	54	62	72	76	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3837.3	3837.3	3837.3	3837.3	3837.3
2.5°	3846.9	3831.1	3837.3	3823.5	3820.9
5°	3829.6	3813.4	3817.4	3799.5	3804.7
7.5°	3799.9	3782.6	3782.1	3762.6	3767.3
10°	3759.5	3739.2	3734.3	3712.2	3715.8
12.5°	3705.9	3684.8	3674.7	3649.4	3655.5
15°	3642.9	3619.5	3602.8	3577.8	3583.3
17.5°	3569.7	3544.0	3523.8	3494.7	3503.8
20°	3485.8	3458.1	3434.0	3403.1	3415.0
22.5°	3391.9	3362.7	3335.1	3307.3	3319.2
25°	3288.4	3258.8	3231.7	3206.3	3218.8
27.5°	3179.6	3146.6	3119.2	3100.9	3114.7
30°	3061.8	3027.7	3001.1	2989.7	3009.3
32.5°	2937.5	2903.6	2880.1	2880.1	2902.8
35°	2809.7	2774.1	2755.0	2766.7	2793.4
37.5°	2672.4	2642.4	2629.1	2652.4	2679.5
40°	2536.3	2505.0	2500.2	2531.2	2559.7
42.5°	2395.5	2367.8	2369.5	2409.5	2436.0
45°	2249.8	2224.0	2235.8	2280.0	2309.0
47.5°	2106.5	2080.2	2099.7	2148.1	2179.3
50°	1954.2	1932.7	1958.7	2013.0	2041.5
52.5°	1802.9	1782.3	1815.9	1873.2	1900.9
55°	1652.5	1633.7	1671.3	1727.0	1746.9
57.5°	1496.7	1485.8	1524.8	1573.7	1594.4
60°	1341.7	1332.3	1371.7	1417.0	1435.7
62.5°	1186.5	1180.9	1218.5	1255.2	1261.5
65°	1030.2	1026.8	1062.0	1081.8	1085.7
67.5°	872.2	873.3	905.5	915.7	915.3
70°	718.1	717.3	746.8	749.7	741.4
72.5°	568.4	572.2	591.3	586.9	573.5
75°	431.8	435.3	448.9	432.3	419.7
77.5°	304.7	307.8	313.9	295.6	287.8
80°	195.0	201.0	197.6	189.1	183.8
82.5°	109.0	115.2	112.1	120.8	124.7
85°	50.3	54.0	62.2	71.8	75.8
87.5°	17.1	20.5	25.5	27.3	25.4
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	19.04	20.63	19.41	20.94	21.26	19.45	21.04	19.82	21.35	21.66
	3H	20.49	21.91	20.87	22.24	22.60	20.86	22.29	21.24	22.61	22.97
	4H	20.91	22.25	21.31	22.59	22.97	21.23	22.57	21.63	22.91	23.29
	6H	21.11	22.35	21.52	22.71	23.10	21.38	22.62	21.79	22.98	23.38
	8H	21.13	22.31	21.56	22.70	23.10	21.41	22.59	21.83	22.98	23.38
	12H	21.13	22.26	21.56	22.64	23.07	21.42	22.55	21.85	22.93	23.36
4H	2H	19.63	20.97	20.03	21.32	21.69	19.96	21.30	20.36	21.65	22.02
	3H	21.25	22.36	21.66	22.76	23.16	21.56	22.67	21.97	23.07	23.47
	4H	21.75	22.75	22.19	23.17	23.61	22.01	23.01	22.44	23.42	23.86
	6H	22.03	22.90	22.49	23.34	23.80	22.23	23.10	22.69	23.54	24.00
	8H	22.07	22.88	22.53	23.32	23.79	22.27	23.08	22.73	23.53	23.99
	12H	22.08	22.81	22.56	23.28	23.75	22.30	23.03	22.78	23.51	23.98
8H	4H	21.94	22.75	22.40	23.19	23.66	22.17	22.98	22.63	23.42	23.89
	6H	22.26	22.93	22.76	23.42	23.90	22.44	23.11	22.93	23.60	24.07
	8H	22.33	22.93	22.84	23.44	23.92	22.50	23.10	23.02	23.61	24.10
	12H	22.36	22.89	22.87	23.38	23.94	22.57	23.10	23.07	23.59	24.15
12H	4H	21.93	22.66	22.41	23.14	23.61	22.16	22.89	22.64	23.37	23.84
	6H	22.26	22.86	22.77	23.37	23.85	22.43	23.03	22.94	23.54	24.03
	8H	22.35	22.88	22.86	23.37	23.94	22.53	23.06	23.04	23.55	24.11