

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: P1498535

Luminaire Tested: MAE-G-2-120-2STD-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189185)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-2STD-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

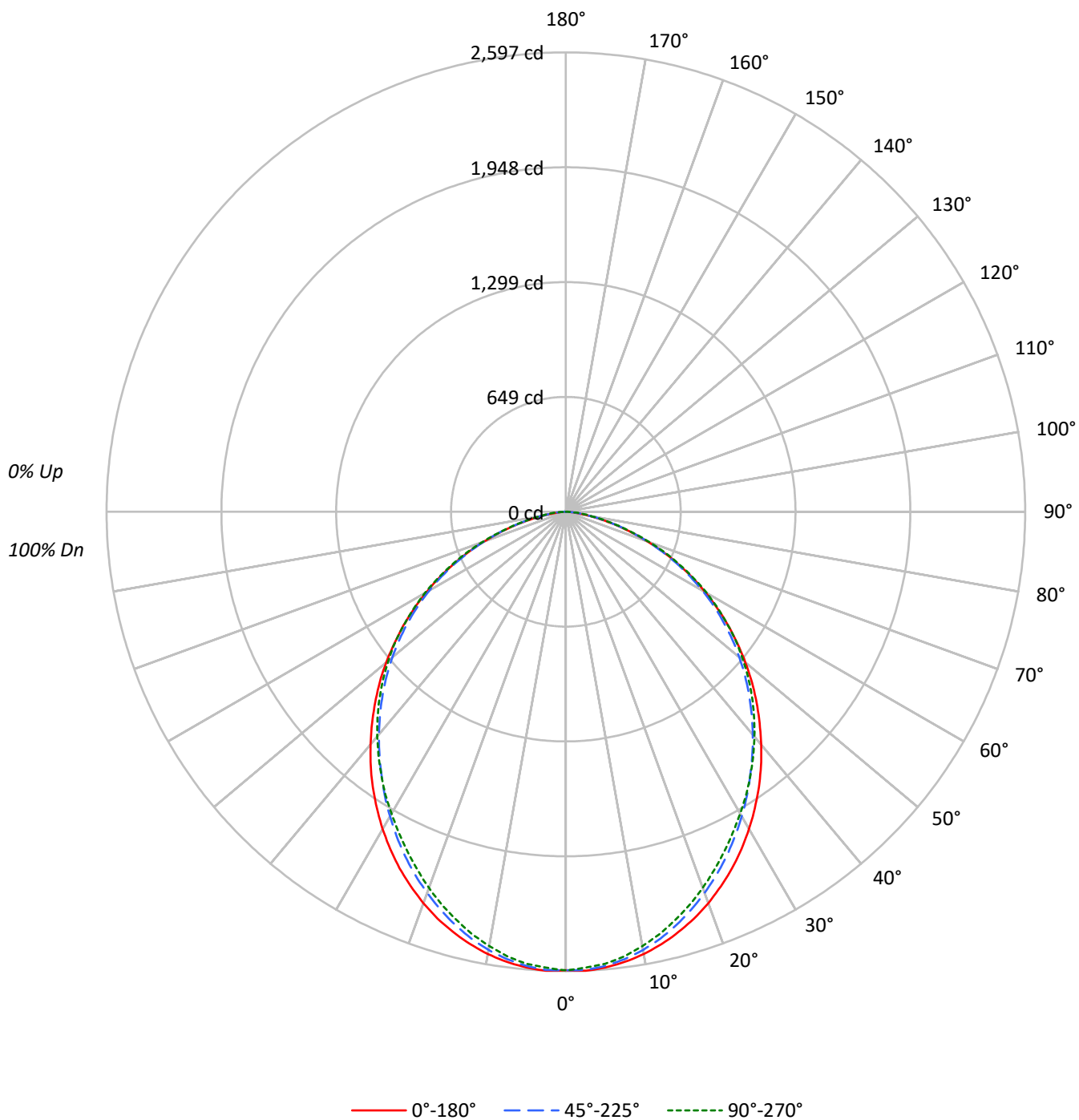
Lumens per Lamp: N/A
Luminaire Lumens: 6277.0 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 80
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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	85	79	87	82	78		84	80	76		81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66		74	69	65		72	67	64	61
4	84	73	64	58	82	71	63	57	69	62	56		66	61	56		64	59	55	53
5	78	65	56	50	75	64	56	50	62	55	49		60	54	49		58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43		54	48	43		53	47	43	41
7	67	53	45	39	65	53	45	39	51	44	38		50	43	38		48	42	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44	39	34	32
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6976	6976	6976
5°	6986	6961	6927
10°	6938	6873	6813
15°	6853	6735	6655
20°	6743	6566	6481
25°	6602	6380	6292
30°	6436	6179	6123
35°	6249	5971	5975
40°	6034	5775	5826
45°	5802	5575	5670
50°	5550	5360	5478
55°	5258	5109	5249
60°	4908	4799	4961
65°	4468	4395	4535
70°	3864	3866	3966
75°	3086	3182	3219
80°	2101	2284	2376
85°	1090	1587	2062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5802 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.6	3.9
10°-20°	681.1	10.9
20°-30°	993.6	15.8
30°-40°	1149.7	18.3
40°-50°	1145.2	18.2
50°-60°	984.9	15.7
60°-70°	689.8	11.0
70°-80°	325.0	5.2
80°-90°	63.9	1.0
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°	1918.3	30.6
0°-40°	3068.1	48.9
0°-60°	5198.2	82.8
0°-90°	6277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2592	2592	2592	2592	2592	
5°	2586	2578	2577	2561	2564	245
15°	2460	2442	2418	2388	2389	693
25°	2224	2194	2149	2118	2119	1024
35°	1902	1864	1818	1809	1819	1189
45°	1525	1489	1465	1478	1490	1176
55°	1121	1092	1089	1109	1119	1001
65°	702	685	690	704	712	694
75°	297	291	306	309	310	319
85°	35	41	51	62	67	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2592.3	2592.3	2592.3	2592.3	2592.3
2.5°	2597.3	2589.9	2592.3	2579.6	2579.8
5°	2586.2	2577.6	2577.1	2560.7	2564.4
7.5°	2566.3	2555.9	2551.0	2531.9	2535.1
10°	2538.9	2525.6	2515.4	2491.7	2493.2
12.5°	2503.6	2488.1	2471.3	2443.6	2445.9
15°	2459.9	2442.1	2417.7	2387.9	2388.9
17.5°	2411.6	2391.5	2358.4	2326.5	2330.0
20°	2354.6	2332.0	2292.9	2259.9	2263.1
22.5°	2291.4	2265.3	2224.2	2190.9	2191.9
25°	2223.6	2194.5	2148.8	2117.8	2119.2
27.5°	2150.2	2117.7	2070.3	2041.8	2045.1
30°	2071.3	2036.7	1988.4	1965.4	1970.5
32.5°	1988.2	1952.4	1904.9	1889.1	1897.6
35°	1902.1	1863.7	1817.7	1809.3	1818.8
37.5°	1812.3	1774.4	1731.5	1730.3	1740.0
40°	1717.6	1681.3	1644.0	1647.7	1658.4
42.5°	1622.0	1586.9	1555.5	1564.3	1575.8
45°	1524.7	1489.3	1465.0	1477.5	1489.8
47.5°	1427.4	1392.3	1374.3	1389.8	1400.9
50°	1325.6	1293.3	1280.4	1298.2	1308.6
52.5°	1222.2	1192.3	1185.5	1205.2	1218.9
55°	1120.7	1092.1	1088.9	1109.0	1118.8
57.5°	1016.1	992.3	991.9	1010.6	1020.6
60°	912.0	889.7	891.6	911.0	921.7
62.5°	806.6	786.6	791.7	809.5	817.6
65°	701.7	685.2	690.3	704.4	712.3
67.5°	597.8	582.8	591.1	606.1	610.0
70°	491.1	480.0	491.4	502.4	504.1
72.5°	392.3	382.5	395.6	403.0	402.8
75°	296.8	290.7	306.0	308.7	309.6
77.5°	209.8	209.6	220.6	223.6	225.1
80°	135.6	140.0	147.4	152.9	153.3
82.5°	76.6	81.7	89.5	101.8	106.6
85°	35.3	40.6	51.4	62.2	66.8
87.5°	12.0	15.8	21.7	23.5	22.3
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	17.68	19.26	18.04	19.57	19.89	17.79	19.37	18.15	19.69	20.00
	3H	19.15	20.57	19.53	20.90	21.26	19.30	20.73	19.68	21.05	21.41
	4H	19.58	20.92	19.98	21.26	21.64	19.75	21.09	20.15	21.44	21.81
	6H	19.79	21.03	20.20	21.39	21.78	20.00	21.23	20.41	21.60	21.99
	8H	19.82	21.00	20.24	21.39	21.79	20.06	21.24	20.48	21.63	22.03
	12H	19.82	20.95	20.25	21.33	21.76	20.10	21.22	20.53	21.61	22.04
4H	2H	18.22	19.56	18.62	19.91	20.29	18.31	19.65	18.71	20.00	20.38
	3H	19.87	20.99	20.28	21.38	21.78	20.01	21.13	20.42	21.53	21.93
	4H	20.39	21.39	20.82	21.81	22.24	20.56	21.56	20.99	21.98	22.42
	6H	20.68	21.55	21.14	21.99	22.45	20.89	21.77	21.35	22.21	22.67
	8H	20.73	21.54	21.19	21.98	22.45	20.98	21.80	21.44	22.24	22.70
	12H	20.74	21.47	21.22	21.95	22.42	21.05	21.78	21.53	22.25	22.72
8H	4H	20.58	21.40	21.05	21.84	22.31	20.74	21.56	21.20	22.00	22.47
	6H	20.94	21.61	21.43	22.10	22.57	21.14	21.81	21.64	22.30	22.78
	8H	21.01	21.61	21.52	22.12	22.61	21.27	21.87	21.78	22.38	22.87
	12H	21.05	21.58	21.56	22.07	22.64	21.38	21.91	21.89	22.40	22.97
12H	4H	20.59	21.32	21.07	21.79	22.26	20.74	21.47	21.22	21.95	22.42
	6H	20.94	21.55	21.45	22.05	22.54	21.14	21.74	21.65	22.25	22.74
	8H	21.05	21.58	21.56	22.08	22.64	21.31	21.84	21.81	22.33	22.89