

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: P1498571

Luminaire Tested: MAE-G-2-120-2STD-LO-50-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498571
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-LO-50-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

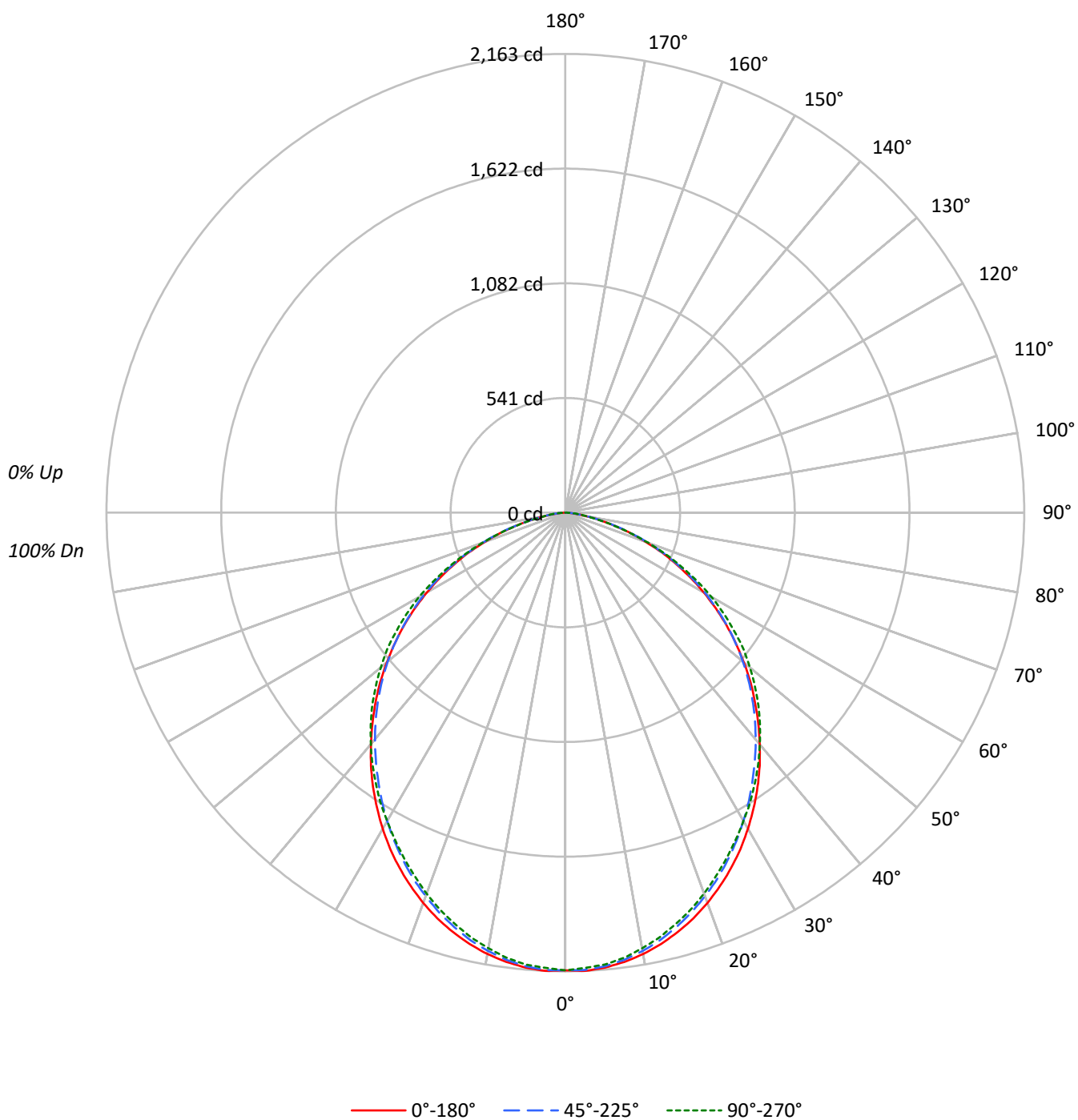
Lumens per Lamp: N/A
Luminaire Lumens: 5283.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	45	39	51	44	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5808	5808	5808
5°	5816	5799	5776
10°	5775	5735	5700
15°	5703	5636	5595
20°	5609	5511	5474
25°	5490	5371	5338
30°	5348	5217	5218
35°	5189	5055	5116
40°	5007	4903	5010
45°	4812	4746	4898
50°	4599	4575	4752
55°	4354	4368	4558
60°	4060	4109	4286
65°	3687	3755	3848
70°	3179	3254	3259
75°	2528	2592	2494
80°	1702	1733	1661
85°	865	1102	1374

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4898 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.1	3.8
10°-20°	569.9	10.8
20°-30°	835.4	15.8
30°-40°	971.2	18.4
40°-50°	971.8	18.4
50°-60°	838.5	15.9
60°-70°	582.9	11.0
70°-80°	263.5	5.0
80°-90°	46.7	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°	1608.3	30.4
0°-40°	2579.6	48.8
0°-60°	4389.9	83.1
0°-90°	5283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2158	2158	2158	2158	2158	
5°	2153	2145	2147	2136	2138	204
15°	2047	2034	2023	2006	2008	577
25°	1849	1831	1809	1794	1798	851
35°	1580	1558	1539	1545	1557	987
45°	1264	1247	1247	1271	1287	975
55°	928	916	931	960	972	829
65°	579	576	590	599	604	573
75°	243	243	249	242	240	262
85°	28	31	36	42	44	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2158.2	2158.2	2158.2	2158.2	2158.2
2.5°	2162.8	2154.7	2158.2	2149.9	2148.6
5°	2153.2	2144.7	2146.8	2135.8	2138.3
7.5°	2136.6	2127.1	2126.6	2114.6	2117.2
10°	2113.4	2102.2	2098.9	2084.4	2085.9
12.5°	2083.9	2071.7	2064.9	2048.5	2051.3
15°	2047.1	2033.7	2022.9	2006.4	2008.2
17.5°	2006.6	1992.8	1976.4	1959.1	1963.5
20°	1958.6	1943.8	1924.6	1906.6	1911.6
22.5°	1905.5	1889.1	1869.5	1852.0	1855.4
25°	1849.0	1831.1	1809.0	1793.8	1797.9
27.5°	1787.4	1767.6	1745.7	1732.9	1738.9
30°	1721.2	1700.8	1679.0	1671.3	1679.4
32.5°	1651.6	1631.0	1610.4	1609.6	1621.0
35°	1579.6	1557.9	1538.8	1544.6	1557.2
37.5°	1504.8	1483.6	1468.0	1480.1	1493.3
40°	1425.4	1406.1	1395.8	1412.2	1426.1
42.5°	1345.7	1327.5	1322.4	1343.3	1358.3
45°	1264.4	1246.6	1247.2	1271.0	1287.0
47.5°	1183.9	1165.5	1171.3	1197.7	1212.1
50°	1098.6	1083.1	1092.7	1120.5	1135.0
52.5°	1013.1	998.9	1012.7	1042.1	1058.9
55°	928.1	915.5	931.1	959.8	971.6
57.5°	841.0	832.1	848.8	873.8	885.1
60°	754.3	746.5	763.5	786.0	796.4
62.5°	666.7	660.4	677.5	695.0	700.7
65°	579.1	575.7	589.8	598.6	604.4
67.5°	493.2	489.5	502.6	509.6	510.8
70°	404.0	403.3	413.6	415.9	414.2
72.5°	322.4	320.7	328.3	326.3	322.9
75°	243.1	242.9	249.3	242.5	239.9
77.5°	171.0	173.9	174.6	168.6	166.4
80°	109.8	113.9	111.8	109.3	107.2
82.5°	61.3	64.2	64.2	70.3	72.7
85°	28.0	30.6	35.7	42.0	44.5
87.5°	9.4	11.7	14.9	15.9	15.0
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	17.04	18.62	17.40	18.93	19.25	17.38	18.96	17.75	19.28	19.59
	3H	18.49	19.92	18.87	20.25	20.61	18.80	20.22	19.18	20.55	20.91
	4H	18.92	20.25	19.31	20.60	20.98	19.18	20.52	19.58	20.86	21.24
	6H	19.12	20.35	19.53	20.72	21.11	19.35	20.59	19.76	20.95	21.34
	8H	19.14	20.32	19.57	20.71	21.11	19.38	20.56	19.81	20.95	21.35
	12H	19.14	20.27	19.57	20.65	21.08	19.40	20.52	19.83	20.90	21.33
4H	2H	17.61	18.95	18.01	19.30	19.67	17.89	19.23	18.29	19.57	19.95
	3H	19.24	20.35	19.65	20.75	21.15	19.49	20.60	19.90	21.00	21.40
	4H	19.75	20.75	20.18	21.16	21.60	19.96	20.96	20.39	21.37	21.81
	6H	20.03	20.90	20.48	21.34	21.79	20.20	21.07	20.65	21.51	21.97
	8H	20.07	20.88	20.53	21.32	21.79	20.25	21.06	20.71	21.50	21.97
	12H	20.08	20.80	20.56	21.28	21.75	20.28	21.01	20.76	21.49	21.96
8H	4H	19.93	20.74	20.39	21.18	21.65	20.12	20.93	20.58	21.37	21.84
	6H	20.26	20.93	20.75	21.42	21.89	20.41	21.08	20.90	21.57	22.05
	8H	20.32	20.92	20.84	21.43	21.92	20.49	21.09	21.00	21.59	22.08
	12H	20.36	20.88	20.86	21.38	21.94	20.56	21.08	21.06	21.58	22.14
12H	4H	19.92	20.65	20.41	21.13	21.60	20.11	20.84	20.59	21.32	21.79
	6H	20.25	20.85	20.76	21.36	21.85	20.40	21.00	20.91	21.51	22.00
	8H	20.35	20.88	20.86	21.37	21.93	20.51	21.04	21.02	21.53	22.10