

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: P1498553

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498553
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-30-90-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

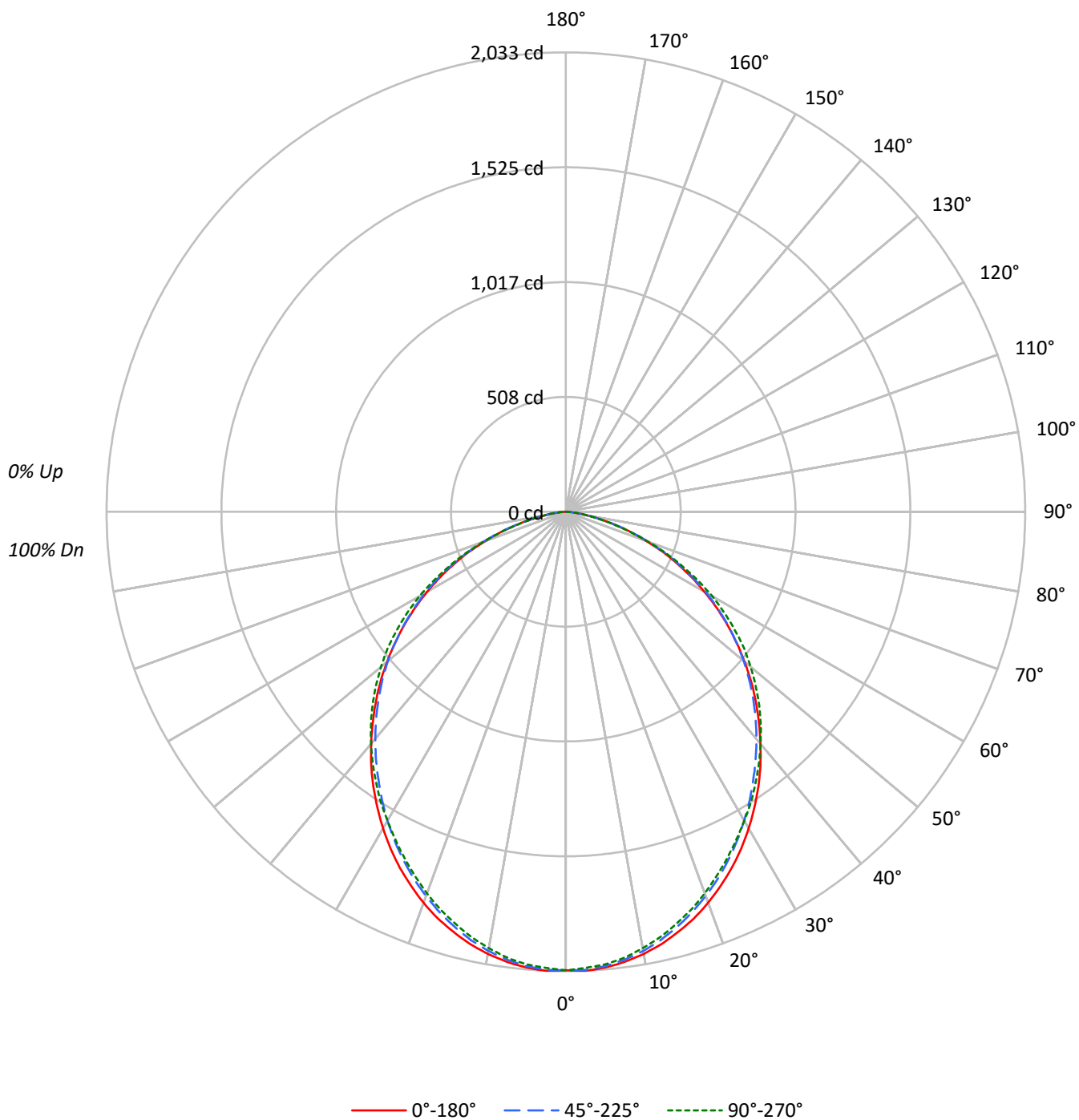
Lumens per Lamp: N/A
Luminaire Lumens: 4967.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	5460	5460	5460
5°	5468	5452	5431
10°	5429	5392	5359
15°	5362	5299	5260
20°	5273	5182	5147
25°	5162	5050	5019
30°	5028	4905	4906
35°	4879	4753	4809
40°	4708	4610	4710
45°	4524	4462	4605
50°	4324	4301	4467
55°	4094	4107	4286
60°	3817	3864	4030
65°	3466	3531	3618
70°	2988	3060	3065
75°	2376	2437	2345
80°	1601	1629	1562
85°	809	1037	1291

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4605 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	3.8
10°-20°	535.8	10.8
20°-30°	785.4	15.8
30°-40°	913.1	18.4
40°-50°	913.7	18.4
50°-60°	788.4	15.9
60°-70°	548.1	11.0
70°-80°	247.7	5.0
80°-90°	43.9	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°	1512.1	30.4
0°-40°	2425.3	48.8
0°-60°	4127.3	83.1
0°-90°	4967.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4967.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2029	2029	2029	2029	2029	
5°	2024	2016	2018	2008	2010	192
15°	1925	1912	1902	1886	1888	542
25°	1738	1722	1701	1686	1690	800
35°	1485	1465	1447	1452	1464	928
45°	1189	1172	1172	1195	1210	917
55°	873	861	875	902	914	779
65°	544	541	554	563	568	539
75°	228	228	234	228	226	246
85°	26	29	34	40	42	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2029.1	2029.1	2029.1	2029.1	2029.1
2.5°	2033.4	2025.8	2029.1	2021.3	2020.0
5°	2024.4	2016.4	2018.3	2008.1	2010.4
7.5°	2008.9	2000.0	1999.4	1988.2	1990.6
10°	1987.0	1976.5	1973.4	1959.8	1961.2
12.5°	1959.3	1947.8	1941.4	1926.1	1928.6
15°	1924.6	1912.1	1901.9	1886.3	1888.1
17.5°	1886.6	1873.5	1858.2	1842.0	1846.0
20°	1841.5	1827.5	1809.6	1792.6	1797.2
22.5°	1791.6	1776.1	1757.7	1741.2	1744.4
25°	1738.4	1721.7	1700.7	1686.5	1690.3
27.5°	1680.4	1661.8	1641.3	1629.2	1634.9
30°	1618.2	1599.1	1578.6	1571.2	1578.9
32.5°	1552.8	1533.5	1514.1	1513.3	1524.0
35°	1485.2	1464.7	1446.7	1452.2	1464.0
37.5°	1414.8	1394.9	1380.1	1391.5	1403.9
40°	1340.1	1322.0	1312.2	1327.7	1340.9
42.5°	1265.3	1248.2	1243.3	1262.9	1277.1
45°	1188.8	1172.0	1172.5	1195.0	1210.0
47.5°	1113.1	1095.9	1101.2	1126.0	1139.6
50°	1032.8	1018.3	1027.4	1053.5	1067.1
52.5°	952.5	939.2	952.1	979.7	995.5
55°	872.6	860.7	875.4	902.4	913.5
57.5°	790.7	782.3	798.1	821.5	832.1
60°	709.2	701.7	717.9	738.9	748.8
62.5°	626.9	620.9	637.0	653.3	658.7
65°	544.4	541.2	554.5	562.8	568.2
67.5°	463.6	460.3	472.5	479.1	480.3
70°	379.8	379.1	388.9	391.0	389.5
72.5°	303.0	301.6	308.7	306.7	303.7
75°	228.5	228.4	234.4	228.0	225.5
77.5°	160.8	163.5	164.2	158.5	156.4
80°	103.3	107.1	105.1	102.7	100.8
82.5°	57.7	60.4	60.4	66.1	68.3
85°	26.2	28.7	33.6	39.5	41.8
87.5°	8.9	11.0	14.0	14.9	14.0
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	16.82	18.41	17.19	18.72	19.03	17.17	18.75	17.53	19.06	19.38
	3H	18.28	19.70	18.66	20.03	20.39	18.59	20.01	18.96	20.34	20.70
	4H	18.70	20.04	19.10	20.39	20.76	18.96	20.30	19.36	20.65	21.03
	6H	18.90	20.14	19.31	20.50	20.89	19.13	20.37	19.55	20.74	21.13
	8H	18.93	20.11	19.35	20.49	20.89	19.17	20.34	19.59	20.73	21.13
	12H	18.92	20.05	19.35	20.43	20.86	19.18	20.31	19.61	20.69	21.12
4H	2H	17.40	18.73	17.80	19.08	19.46	17.68	19.01	18.07	19.36	19.74
	3H	19.03	20.14	19.44	20.54	20.94	19.28	20.39	19.69	20.79	21.19
	4H	19.53	20.53	19.97	20.95	21.38	19.74	20.74	20.17	21.16	21.59
	6H	19.81	20.68	20.27	21.12	21.58	19.98	20.85	20.44	21.29	21.75
	8H	19.85	20.66	20.31	21.11	21.57	20.03	20.84	20.49	21.29	21.75
	12H	19.86	20.59	20.34	21.07	21.54	20.07	20.79	20.55	21.27	21.74
8H	4H	19.71	20.52	20.17	20.97	21.43	19.90	20.71	20.36	21.16	21.62
	6H	20.04	20.71	20.54	21.20	21.68	20.19	20.86	20.69	21.35	21.83
	8H	20.11	20.71	20.62	21.22	21.70	20.27	20.87	20.78	21.38	21.87
	12H	20.14	20.67	20.65	21.16	21.72	20.34	20.87	20.85	21.36	21.92
12H	4H	19.71	20.44	20.19	20.91	21.38	19.90	20.62	20.38	21.10	21.57
	6H	20.04	20.64	20.55	21.15	21.64	20.19	20.79	20.70	21.30	21.78
	8H	20.14	20.67	20.65	21.16	21.72	20.30	20.83	20.81	21.32	21.88

END OF REPORT