

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: P1498433

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498433
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-2-120-2LO-HI-30-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 LO ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

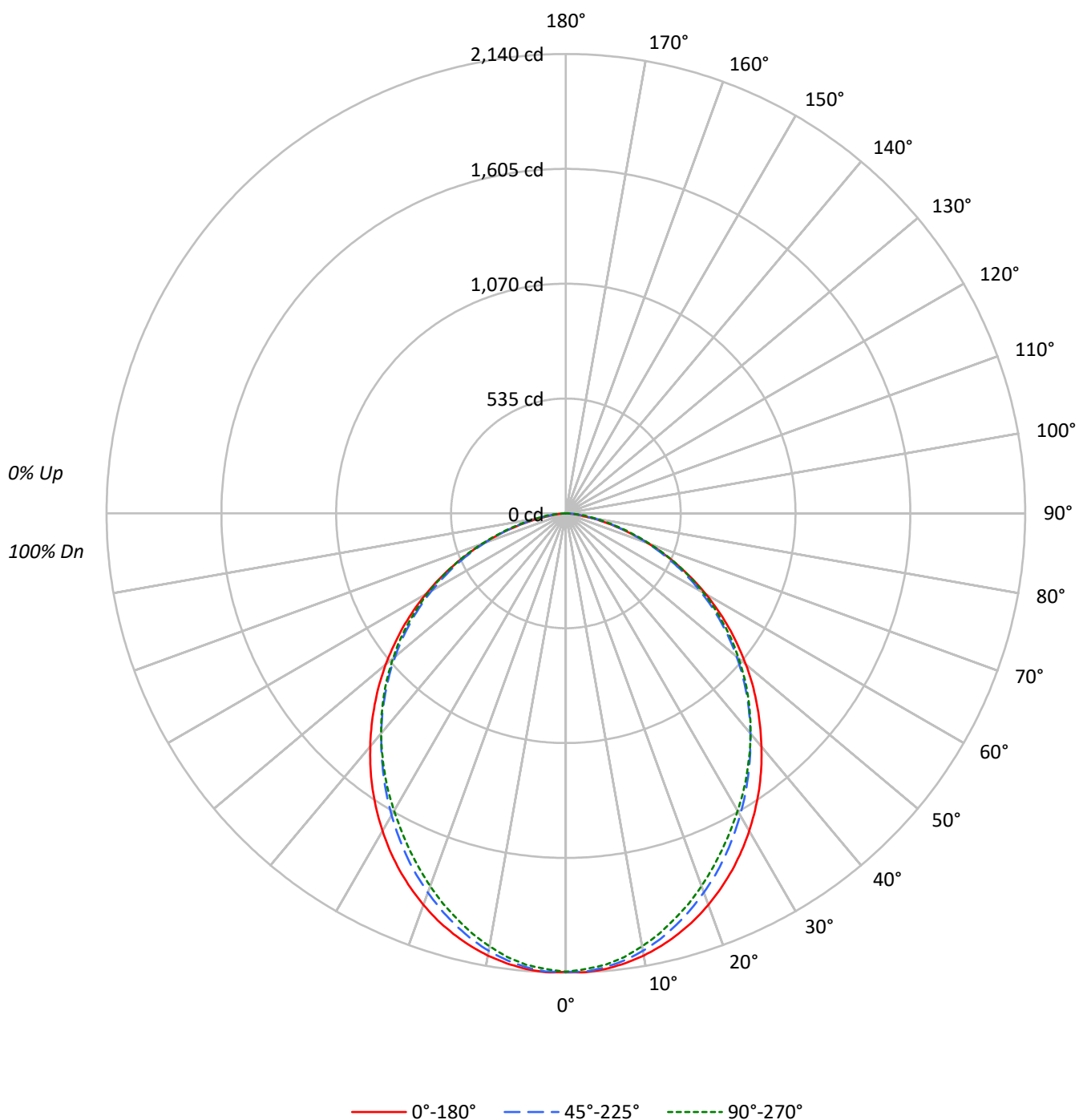
Lumens per Lamp: N/A
Luminaire Lumens: 5137.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	97	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	92	86	80	98	90	84	79	87	82	78		84	79	76		81	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56		66	60	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°	5748	5748	5748
5°	5756	5734	5702
10°	5716	5655	5596
15°	5648	5533	5450
20°	5559	5383	5292
25°	5444	5221	5124
30°	5309	5046	4972
35°	5156	4869	4837
40°	4981	4700	4702
45°	4792	4530	4563
50°	4585	4349	4397
55°	4347	4139	4210
60°	4060	3885	3992
65°	3701	3564	3694
70°	3207	3164	3294
75°	2567	2655	2765
80°	1759	1984	2149
85°	929	1439	1908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4792 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	200.6	3.9
10°-20°	559.4	10.9
20°-30°	813.7	15.8
30°-40°	938.8	18.3
40°-50°	932.4	18.2
50°-60°	800.2	15.6
60°-70°	563.1	11.0
70°-80°	272.1	5.3
80°-90°	56.6	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°	1573.7	30.6
0°-40°	2512.5	48.9
0°-60°	4245.1	82.6
0°-90°	5137.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5137.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2136	2136	2136	2136	2136	
5°	2131	2124	2123	2107	2111	202
15°	2027	2012	1986	1956	1956	571
25°	1834	1806	1758	1726	1726	844
35°	1570	1532	1482	1468	1472	981
45°	1259	1223	1190	1192	1199	971
55°	926	896	882	892	897	827
65°	581	561	560	573	580	575
75°	247	239	255	263	266	266
85°	30	35	47	57	62	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2135.9	2135.9	2135.9	2135.9	2135.9
2.5°	2139.7	2134.9	2135.9	2124.0	2125.0
5°	2130.7	2124.4	2122.6	2107.4	2110.9
7.5°	2114.4	2106.3	2100.1	2082.0	2084.7
10°	2092.0	2081.2	2069.6	2046.9	2048.0
12.5°	2063.1	2049.9	2031.6	2004.9	2006.2
15°	2027.3	2011.7	1985.9	1956.3	1956.3
17.5°	1987.7	1969.4	1935.3	1903.3	1905.4
20°	1941.1	1919.9	1879.7	1846.6	1848.0
22.5°	1889.2	1864.6	1821.7	1788.2	1787.4
25°	1833.6	1805.5	1758.3	1726.3	1725.8
27.5°	1773.3	1742.1	1692.4	1662.3	1663.0
30°	1708.6	1675.0	1623.9	1598.1	1600.0
32.5°	1640.4	1605.2	1554.5	1534.2	1538.3
35°	1569.5	1531.9	1482.1	1467.5	1472.3
37.5°	1495.5	1458.3	1410.5	1401.5	1406.4
40°	1417.9	1381.4	1338.0	1333.0	1338.6
42.5°	1339.3	1303.6	1264.9	1263.9	1270.1
45°	1259.2	1223.1	1190.3	1192.4	1199.1
47.5°	1178.8	1143.2	1115.8	1120.4	1126.4
50°	1095.3	1061.8	1038.8	1045.5	1050.4
52.5°	1009.8	978.4	961.1	969.4	977.5
55°	926.5	896.0	882.2	891.6	897.3
57.5°	840.3	813.9	803.2	812.9	819.4
60°	754.4	729.6	721.8	733.8	741.7
62.5°	667.5	644.8	641.1	654.1	661.3
65°	581.2	561.3	559.7	572.8	580.1
67.5°	495.3	477.6	480.6	496.4	500.8
70°	407.6	393.1	402.1	415.4	418.6
72.5°	325.8	313.6	326.6	337.7	339.5
75°	246.9	238.9	255.4	263.1	265.9
77.5°	175.1	173.0	187.2	194.9	198.3
80°	113.5	116.9	128.0	136.9	138.7
82.5°	64.6	69.5	80.1	92.7	97.6
85°	30.1	35.4	46.6	57.1	61.8
87.5°	10.1	14.0	19.8	21.6	20.6
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	17.01	18.59	17.37	18.90	19.22	16.97	18.55	17.34	18.87	19.18
	3H	18.49	19.91	18.86	20.24	20.60	18.55	19.97	18.92	20.30	20.66
	4H	18.92	20.26	19.32	20.61	20.99	19.04	20.38	19.44	20.73	21.11
	6H	19.14	20.38	19.55	20.74	21.13	19.34	20.58	19.75	20.94	21.33
	8H	19.17	20.35	19.60	20.74	21.14	19.42	20.60	19.84	20.99	21.39
	12H	19.17	20.30	19.60	20.69	21.11	19.47	20.60	19.90	20.99	21.42
4H	2H	17.53	18.87	17.93	19.22	19.60	17.50	18.84	17.90	19.19	19.57
	3H	19.20	20.31	19.61	20.71	21.11	19.27	20.39	19.68	20.79	21.19
	4H	19.72	20.72	20.15	21.14	21.57	19.87	20.88	20.31	21.29	21.73
	6H	20.02	20.89	20.47	21.33	21.79	20.27	21.14	20.72	21.58	22.04
	8H	20.07	20.89	20.53	21.33	21.79	20.38	21.20	20.84	21.64	22.11
	12H	20.09	20.82	20.57	21.29	21.76	20.47	21.20	20.95	21.68	22.15
8H	4H	19.92	20.74	20.39	21.18	21.65	20.07	20.88	20.53	21.33	21.79
	6H	20.29	20.96	20.78	21.45	21.93	20.53	21.21	21.03	21.70	22.18
	8H	20.37	20.97	20.88	21.48	21.97	20.70	21.30	21.21	21.81	22.30
	12H	20.41	20.95	20.92	21.44	22.00	20.84	21.37	21.35	21.86	22.43
12H	4H	19.93	20.66	20.41	21.14	21.61	20.07	20.80	20.55	21.27	21.74
	6H	20.30	20.91	20.81	21.41	21.90	20.54	21.14	21.05	21.65	22.14
	8H	20.42	20.95	20.93	21.45	22.01	20.74	21.28	21.25	21.77	22.33