

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: P1498370

Luminaire Tested: MAE-G-2-120-2HI-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498370
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-2-120-2HI-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

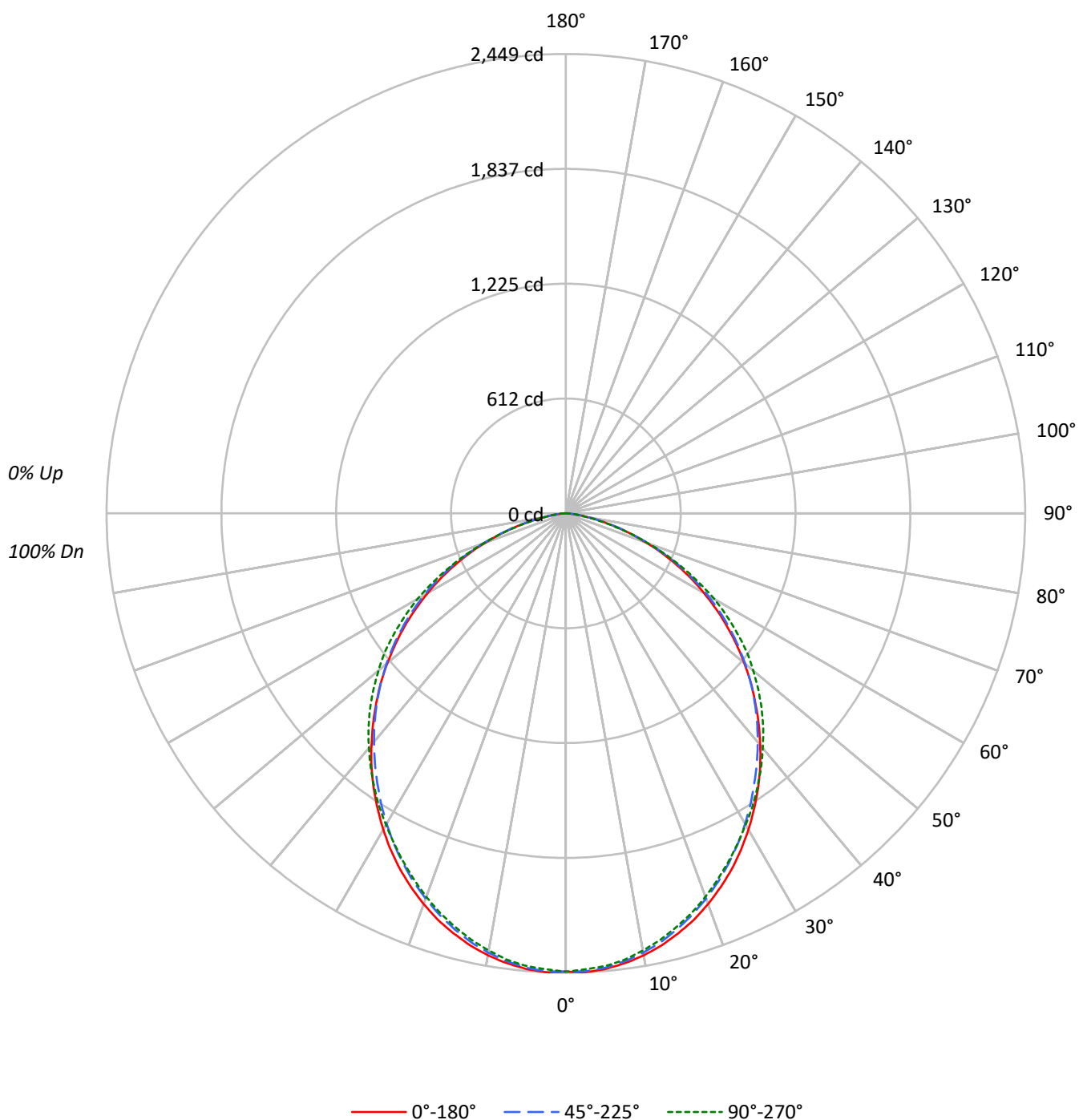
Lumens per Lamp: N/A
Luminaire Lumens: 6005.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	93	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	76	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	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	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6575	6575	6575
5°	6585	6566	6543
10°	6537	6498	6465
15°	6456	6392	6357
20°	6348	6259	6230
25°	6212	6105	6086
30°	6050	5937	5958
35°	5869	5758	5851
40°	5662	5591	5739
45°	5439	5418	5621
50°	5197	5226	5460
55°	4920	4994	5240
60°	4585	4700	4919
65°	4160	4292	4387
70°	3581	3699	3672
75°	2844	2911	2745
80°	1906	1892	1746
85°	957	1155	1408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.0	3.8
10°-20°	646.4	10.8
20°-30°	949.1	15.8
30°-40°	1105.4	18.4
40°-50°	1108.0	18.5
50°-60°	957.1	15.9
60°-70°	663.6	11.1
70°-80°	295.3	4.9
80°-90°	50.1	0.8
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°	1825.5	30.4
0°-40°	2931.0	48.8
0°-60°	4996.1	83.2
0°-90°	6005.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2443	2443	2443	2443	2443	
5°	2438	2428	2431	2420	2422	231
15°	2317	2303	2294	2279	2282	653
25°	2092	2075	2056	2044	2050	963
35°	1787	1766	1753	1765	1781	1117
45°	1429	1414	1424	1456	1477	1103
55°	1049	1039	1064	1102	1117	936
65°	653	654	674	683	689	647
75°	274	275	280	268	264	294
85°	31	33	37	44	46	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2443.2	2443.2	2443.2	2443.2	2443.2
2.5°	2448.7	2438.6	2443.2	2434.9	2432.7
5°	2437.7	2427.5	2430.8	2419.6	2422.2
7.5°	2418.8	2407.8	2408.6	2396.8	2399.6
10°	2392.5	2379.7	2378.2	2364.0	2365.8
12.5°	2358.9	2345.4	2340.8	2325.1	2328.6
15°	2317.2	2302.7	2294.4	2279.2	2281.8
17.5°	2271.2	2256.7	2243.0	2227.4	2232.8
20°	2216.6	2201.6	2185.5	2169.1	2175.6
22.5°	2156.4	2139.9	2124.0	2108.5	2113.4
25°	2092.2	2074.7	2056.3	2043.7	2049.6
27.5°	2022.2	2003.0	1985.6	1975.7	1983.8
30°	1947.1	1927.6	1910.8	1906.8	1917.5
32.5°	1868.0	1848.9	1833.5	1837.8	1852.6
35°	1786.6	1766.2	1752.9	1764.8	1781.0
37.5°	1702.0	1682.2	1673.0	1692.3	1709.4
40°	1611.7	1594.6	1591.6	1615.8	1633.7
42.5°	1521.5	1505.6	1508.6	1538.0	1557.4
45°	1429.3	1414.0	1423.6	1456.2	1476.9
47.5°	1338.4	1322.3	1337.4	1373.1	1391.6
50°	1241.5	1228.8	1248.3	1285.3	1304.2
52.5°	1145.0	1133.5	1157.3	1196.0	1217.4
55°	1048.6	1039.1	1064.5	1102.0	1117.0
57.5°	949.9	944.6	970.7	1002.9	1017.0
60°	851.9	847.5	873.3	901.4	913.9
62.5°	752.7	750.0	774.8	795.7	801.7
65°	653.3	653.9	674.0	682.9	689.0
67.5°	556.4	556.0	573.4	579.1	579.7
70°	455.2	458.1	470.1	469.7	466.7
72.5°	363.1	364.1	371.3	365.4	360.4
75°	273.5	275.4	280.0	268.4	264.0
77.5°	192.0	196.6	193.9	183.4	179.3
80°	123.0	127.9	122.1	116.0	112.7
82.5°	68.4	71.1	68.4	73.4	75.5
85°	31.0	33.2	37.4	43.5	45.6
87.5°	10.5	12.6	15.5	16.4	15.4
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	17.47	19.05	17.83	19.36	19.68	17.89	19.48	18.26	19.79	20.11
	3H	18.92	20.34	19.30	20.67	21.03	19.28	20.70	19.66	21.03	21.39
	4H	19.34	20.67	19.74	21.02	21.40	19.64	20.97	20.03	21.32	21.70
	6H	19.53	20.77	19.95	21.13	21.53	19.78	21.02	20.19	21.38	21.77
	8H	19.56	20.74	19.98	21.12	21.52	19.80	20.98	20.23	21.37	21.77
	12H	19.55	20.68	19.98	21.06	21.49	19.81	20.94	20.24	21.32	21.75
4H	2H	18.05	19.39	18.45	19.74	20.11	18.40	19.73	18.80	20.08	20.46
	3H	19.68	20.79	20.09	21.19	21.59	19.96	21.07	20.37	21.47	21.87
	4H	20.18	21.18	20.61	21.59	22.03	20.40	21.40	20.83	21.81	22.25
	6H	20.45	21.32	20.91	21.76	22.22	20.61	21.48	21.07	21.92	22.38
	8H	20.49	21.30	20.95	21.74	22.21	20.65	21.46	21.11	21.90	22.37
	12H	20.50	21.22	20.98	21.70	22.17	20.67	21.40	21.15	21.87	22.34
8H	4H	20.35	21.16	20.81	21.61	22.07	20.55	21.37	21.02	21.81	22.28
	6H	20.68	21.34	21.17	21.83	22.31	20.81	21.48	21.31	21.97	22.44
	8H	20.74	21.33	21.25	21.84	22.33	20.87	21.47	21.38	21.98	22.46
	12H	20.77	21.29	21.27	21.79	22.35	20.92	21.45	21.43	21.94	22.51
12H	4H	20.35	21.07	20.83	21.55	22.02	20.55	21.27	21.03	21.75	22.22
	6H	20.67	21.27	21.18	21.77	22.26	20.80	21.40	21.31	21.91	22.40
	8H	20.76	21.29	21.27	21.78	22.34	20.89	21.42	21.40	21.91	22.48