

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: P1498055

Luminaire Tested: MAE-G-2-120-1HI-HI-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498055
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P27581)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-1HI-HI-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

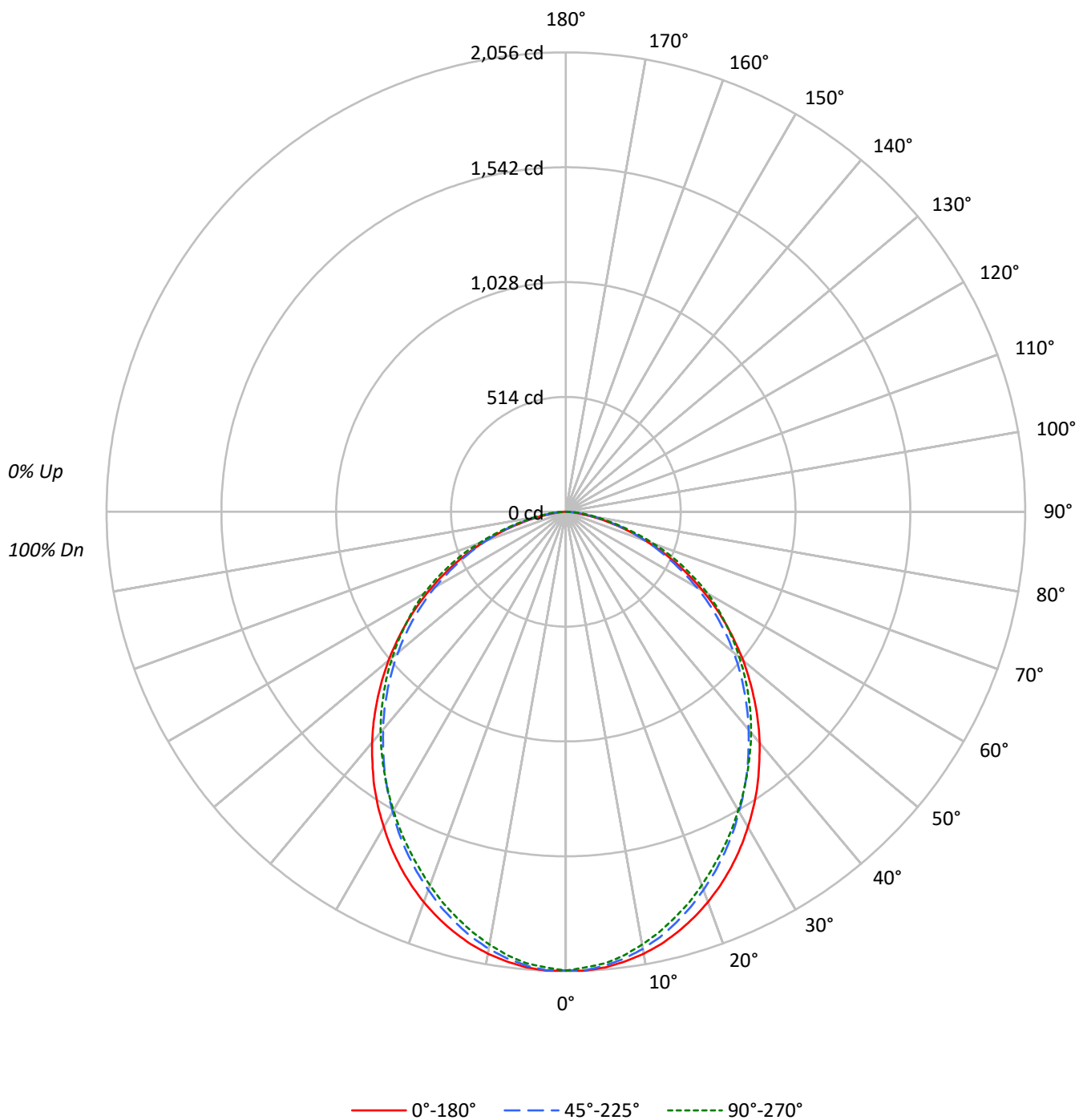
Lumens per Lamp: N/A
Luminaire Lumens: 4911.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	65		72
4	84	73	64	58	82	71	63	57	69	62	56		66	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5526	5526	5526
5°	5528	5507	5479
10°	5488	5427	5375
15°	5419	5305	5241
20°	5324	5156	5093
25°	5206	4996	4943
30°	5065	4817	4796
35°	4913	4648	4660
40°	4740	4471	4532
45°	4545	4295	4391
50°	4338	4109	4244
55°	4099	3891	4090
60°	3805	3641	3955
65°	3463	3319	3680
70°	3005	2986	3286
75°	2400	2546	2708
80°	1661	1973	2157
85°	926	1507	1967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4545 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	3.9
10°-20°	537.2	10.9
20°-30°	780.1	15.9
30°-40°	897.6	18.3
40°-50°	888.2	18.1
50°-60°	760.3	15.5
60°-70°	536.5	10.9
70°-80°	261.3	5.3
80°-90°	57.1	1.2
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°	1510.0	30.7
0°-40°	2407.6	49.0
0°-60°	4056.1	82.6
0°-90°	4911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	2046	2045	2038	2024	2028	194
15°	1945	1934	1904	1878	1881	548
25°	1753	1728	1683	1660	1665	807
35°	1496	1460	1415	1409	1418	934
45°	1194	1161	1129	1142	1154	921
55°	874	843	829	853	872	780
65°	544	520	521	561	578	538
75°	231	221	245	260	260	249
85°	30	37	49	59	64	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.4	2053.4	2053.4	2053.4	2053.4
2.5°	2055.8	2057.5	2053.4	2038.0	2040.7
5°	2046.4	2044.7	2038.5	2023.9	2028.4
7.5°	2030.1	2027.2	2016.1	1998.8	2001.8
10°	2008.4	2002.7	1986.1	1964.5	1967.0
12.5°	1980.3	1972.6	1949.3	1924.7	1927.3
15°	1945.2	1934.2	1904.4	1878.5	1881.1
17.5°	1904.8	1892.2	1856.1	1828.0	1833.7
20°	1859.1	1842.2	1800.6	1773.9	1778.6
22.5°	1808.8	1787.4	1743.8	1717.9	1721.6
25°	1753.3	1727.5	1682.6	1660.3	1664.7
27.5°	1693.6	1665.0	1618.9	1598.4	1605.3
30°	1629.9	1599.1	1550.2	1535.8	1543.4
32.5°	1564.4	1531.7	1483.4	1473.8	1481.5
35°	1495.7	1459.9	1414.9	1408.7	1418.4
37.5°	1422.0	1387.6	1343.1	1345.6	1354.5
40°	1349.2	1313.5	1272.7	1279.2	1290.0
42.5°	1273.2	1239.0	1201.6	1211.0	1223.7
45°	1194.4	1161.4	1128.7	1141.6	1153.7
47.5°	1115.0	1082.6	1055.7	1070.9	1085.3
50°	1036.3	1005.0	981.4	1000.2	1013.7
52.5°	953.7	923.9	906.7	926.6	944.1
55°	873.6	843.3	829.3	853.2	871.8
57.5°	790.8	765.9	753.7	782.1	805.3
60°	706.9	682.3	676.5	712.6	734.8
62.5°	624.7	600.6	597.7	640.2	656.3
65°	543.8	520.1	521.2	560.7	578.0
67.5°	463.6	441.8	451.2	489.2	500.9
70°	381.9	362.6	379.5	411.8	417.7
72.5°	305.2	288.9	312.1	335.0	336.6
75°	230.8	220.6	244.9	260.2	260.5
77.5°	165.2	159.9	182.3	192.9	193.8
80°	107.2	109.5	127.3	135.6	139.2
82.5°	62.5	68.1	82.0	95.7	99.4
85°	30.0	36.7	48.8	59.4	63.7
87.5°	10.4	14.8	20.4	22.6	22.0
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	16.74	18.32	17.10	18.64	18.95	16.89	18.47	17.26	18.79	19.10
	3H	18.19	19.61	18.57	19.94	20.30	18.54	19.97	18.92	20.29	20.65
	4H	18.62	19.96	19.02	20.31	20.68	19.05	20.39	19.45	20.73	21.11
	6H	18.84	20.08	19.25	20.44	20.83	19.35	20.59	19.76	20.95	21.34
	8H	18.87	20.05	19.30	20.44	20.84	19.44	20.62	19.86	21.01	21.41
	12H	18.88	20.01	19.31	20.39	20.82	19.50	20.63	19.93	21.01	21.44
4H	2H	17.25	18.59	17.65	18.94	19.32	17.38	18.72	17.78	19.06	19.44
	3H	18.89	20.00	19.30	20.40	20.80	19.23	20.35	19.64	20.74	21.15
	4H	19.40	20.41	19.84	20.82	21.26	19.85	20.86	20.28	21.27	21.71
	6H	19.71	20.58	20.16	21.02	21.48	20.26	21.13	20.71	21.57	22.03
	8H	19.76	20.58	20.22	21.02	21.49	20.38	21.20	20.84	21.64	22.11
	12H	19.78	20.52	20.26	20.99	21.46	20.48	21.21	20.96	21.69	22.16
8H	4H	19.63	20.45	20.09	20.89	21.36	20.03	20.85	20.50	21.29	21.76
	6H	20.00	20.67	20.49	21.16	21.64	20.52	21.20	21.02	21.69	22.16
	8H	20.09	20.69	20.60	21.20	21.69	20.70	21.30	21.21	21.81	22.30
	12H	20.14	20.67	20.65	21.16	21.73	20.86	21.39	21.37	21.88	22.45
12H	4H	19.64	20.37	20.12	20.85	21.32	20.03	20.77	20.51	21.24	21.71
	6H	20.02	20.63	20.53	21.13	21.62	20.53	21.13	21.04	21.64	22.13
	8H	20.15	20.68	20.66	21.17	21.74	20.75	21.28	21.26	21.77	22.34