

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: P1498051

Luminaire Tested: MAE-G-2-120-1HI-HI-30-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498051
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

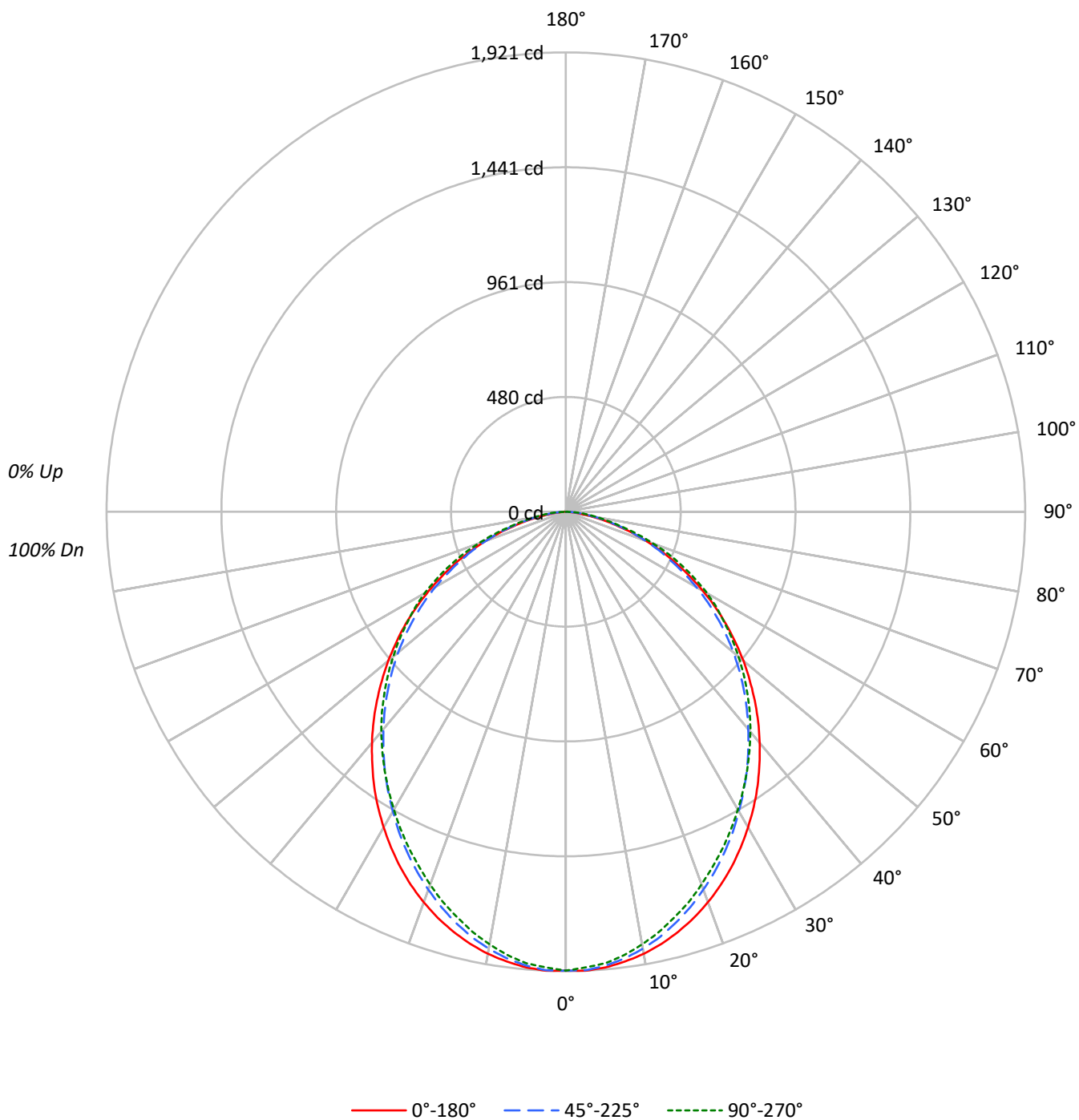
Lumens per Lamp: N/A
Luminaire Lumens: 4584.0 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 65.1
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	92	86	80	97	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	61	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	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	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	29	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5164	5164	5164
5°	5166	5145	5119
10°	5129	5070	5020
15°	5064	4955	4891
20°	4976	4814	4751
25°	4866	4663	4608
30°	4735	4494	4469
35°	4594	4336	4339
40°	4431	4169	4217
45°	4251	4005	4084
50°	4058	3830	3945
55°	3835	3626	3801
60°	3560	3393	3676
65°	3242	3095	3428
70°	2814	2788	3072
75°	2248	2384	2548
80°	1557	1858	2046
85°	871	1426	1868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4251 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.9
10°-20°	501.7	10.9
20°-30°	728.2	15.9
30°-40°	837.4	18.3
40°-50°	828.3	18.1
50°-60°	708.8	15.5
60°-70°	500.6	10.9
70°-80°	244.9	5.3
80°-90°	54.0	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°	1410.0	30.8
0°-40°	2247.4	49.0
0°-60°	3784.5	82.6
0°-90°	4584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4584.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1919	1919	1919	1919	1919	
5°	1912	1911	1905	1891	1895	181
15°	1818	1807	1779	1754	1756	512
25°	1639	1614	1570	1548	1552	754
35°	1398	1364	1320	1312	1321	874
45°	1117	1085	1052	1063	1073	862
55°	817	788	773	794	810	730
65°	509	486	486	522	538	504
75°	216	206	229	244	245	233
85°	28	35	46	56	60	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.9	1918.9	1918.9	1918.9	1918.9
2.5°	1921.0	1922.7	1918.9	1904.3	1906.9
5°	1912.3	1910.7	1904.8	1890.9	1895.2
7.5°	1897.1	1894.4	1883.8	1867.2	1869.9
10°	1876.9	1871.5	1855.6	1834.9	1837.1
12.5°	1850.7	1843.3	1820.8	1797.2	1799.5
15°	1817.9	1807.4	1778.7	1753.5	1755.7
17.5°	1780.3	1768.1	1733.3	1705.9	1711.1
20°	1737.7	1721.3	1681.2	1655.0	1659.2
22.5°	1690.7	1670.2	1627.9	1602.5	1605.6
25°	1639.0	1614.0	1570.5	1548.2	1552.1
27.5°	1583.2	1555.8	1510.8	1490.2	1496.2
30°	1523.8	1494.1	1446.4	1431.5	1438.1
32.5°	1462.6	1431.0	1384.0	1373.5	1380.0
35°	1398.3	1364.0	1319.8	1312.5	1320.9
37.5°	1329.6	1296.5	1252.7	1253.3	1261.0
40°	1261.5	1227.2	1186.8	1191.3	1200.6
42.5°	1190.7	1157.5	1120.4	1127.5	1138.6
45°	1117.1	1085.1	1052.3	1062.7	1073.2
47.5°	1042.9	1011.3	984.2	996.8	1009.4
50°	969.4	939.0	914.9	930.7	942.4
52.5°	892.1	863.2	845.1	861.9	877.5
55°	817.4	787.9	772.9	793.6	810.2
57.5°	740.0	715.6	702.5	727.4	748.4
60°	661.5	637.5	630.5	662.8	683.0
62.5°	584.7	561.2	557.1	595.7	610.6
65°	509.1	486.0	486.0	522.4	538.4
67.5°	434.0	412.9	420.8	456.4	467.2
70°	357.6	338.8	354.3	384.7	390.5
72.5°	285.9	270.1	291.8	313.7	315.6
75°	216.2	206.3	229.3	244.4	245.1
77.5°	154.8	149.6	171.2	182.0	183.2
80°	100.5	102.6	119.9	128.5	132.0
82.5°	58.6	63.9	77.6	90.7	94.4
85°	28.2	34.6	46.2	56.3	60.5
87.5°	9.8	14.0	19.3	21.4	20.8
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	16.51	18.09	16.87	18.41	18.72	16.63	18.21	16.99	18.52	18.84
	3H	17.96	19.39	18.34	19.71	20.07	18.29	19.71	18.66	20.04	20.40
	4H	18.39	19.73	18.79	20.08	20.46	18.80	20.14	19.20	20.49	20.87
	6H	18.61	19.85	19.02	20.22	20.61	19.11	20.35	19.52	20.72	21.11
	8H	18.65	19.83	19.07	20.22	20.62	19.21	20.39	19.63	20.78	21.18
	12H	18.65	19.78	19.08	20.17	20.59	19.27	20.40	19.70	20.78	21.21
4H	2H	17.02	18.36	17.42	18.71	19.08	17.12	18.45	17.51	18.80	19.18
	3H	18.66	19.77	19.07	20.17	20.57	18.98	20.10	19.39	20.49	20.89
	4H	19.17	20.18	19.61	20.59	21.03	19.61	20.62	20.04	21.03	21.47
	6H	19.48	20.35	19.93	20.79	21.25	20.03	20.90	20.48	21.34	21.80
	8H	19.53	20.35	19.99	20.79	21.26	20.16	20.97	20.62	21.42	21.88
	12H	19.56	20.29	20.04	20.76	21.24	20.26	20.99	20.74	21.47	21.94
8H	4H	19.40	20.22	19.86	20.66	21.13	19.80	20.61	20.26	21.06	21.52
	6H	19.77	20.45	20.27	20.94	21.41	20.29	20.97	20.79	21.46	21.94
	8H	19.86	20.47	20.37	20.97	21.46	20.48	21.09	20.99	21.59	22.08
	12H	19.91	20.45	20.42	20.94	21.50	20.64	21.18	21.15	21.67	22.23
12H	4H	19.41	20.15	19.89	20.62	21.09	19.80	20.53	20.28	21.00	21.47
	6H	19.79	20.40	20.31	20.91	21.40	20.30	20.91	20.81	21.42	21.90
	8H	19.92	20.46	20.43	20.95	21.51	20.53	21.07	21.04	21.56	22.12