

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: P1498312

Luminaire Tested: MAE-G-2-120-2HI-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498312
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-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient illumination levels
Light Source: -
Ballast/Driver: -

Summary

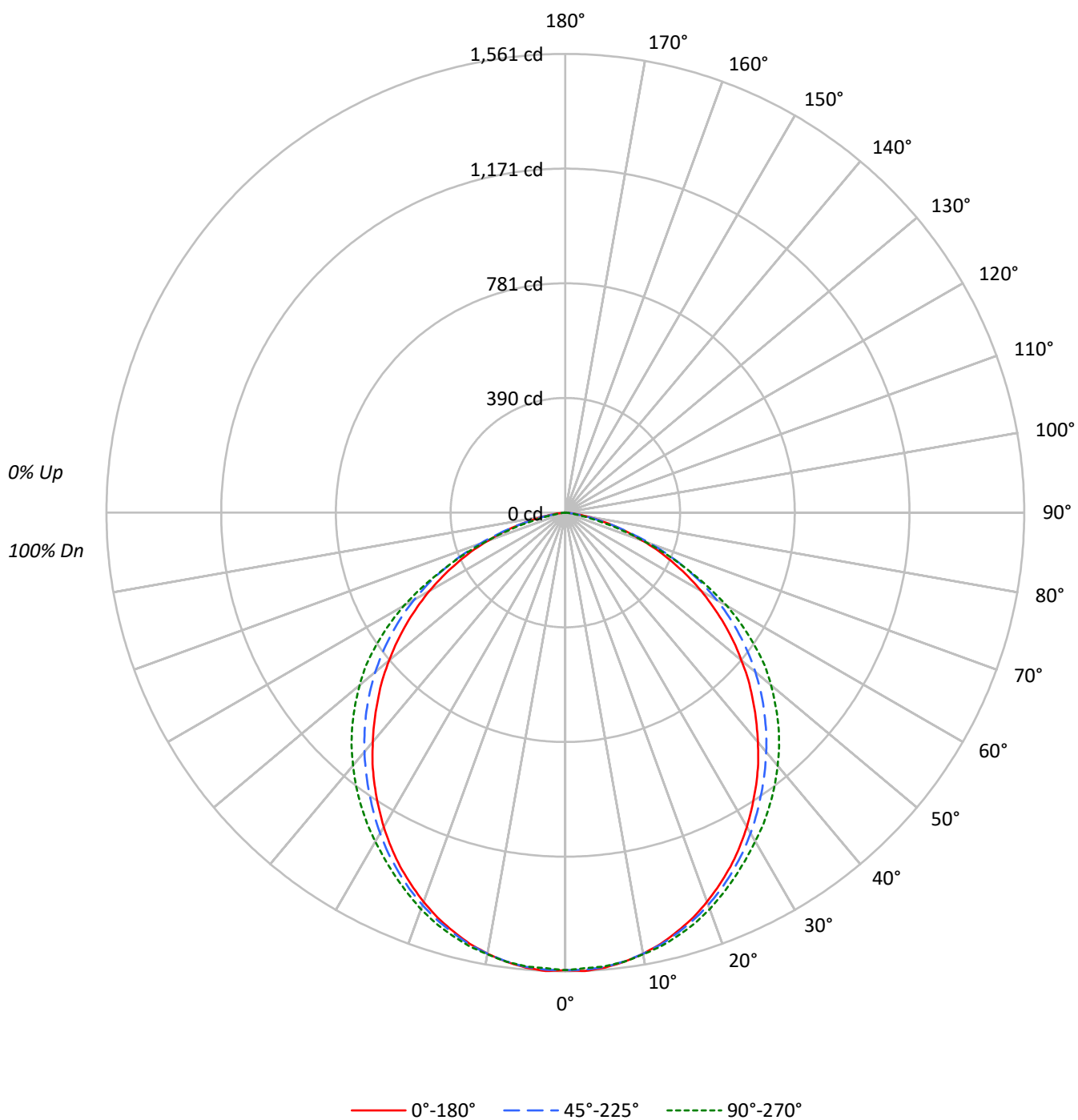
Lumens per Lamp: N/A
Luminaire Lumens: 3930.0 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.2
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

TEST NUMBER: P1498312

CATALOG NUMBER: MAE-G-2-120-2HI-30-90-VRDCPH

Luminous Intensity Polar Plot



TEST NUMBER: P1498312

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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	102	98	107	103	100	97	99	96	93		95	93	91		92
2	100	93	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		75	69	65		72
4	84	73	64	58	82	71	64	58	69	62	57		67	61	56		65
5	78	65	57	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	40	35	60	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	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4190	4190	4190
5°	4197	4190	4186
10°	4165	4165	4171
15°	4109	4124	4149
20°	4036	4070	4112
25°	3946	3998	4058
30°	3837	3916	4015
35°	3716	3821	3984
40°	3579	3735	3946
45°	3432	3642	3903
50°	3273	3533	3824
55°	3093	3391	3681
60°	2874	3201	3417
65°	2592	2909	2925
70°	2213	2421	2263
75°	1737	1753	1413
80°	1130	902	541
85°	522	343	278

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3903 cd/sqm

TEST NUMBER: P1498312

CATALOG NUMBER: MAE-G-2-120-2HI-30-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.0	3.7
10°-20°	417.1	10.6
20°-30°	619.5	15.8
30°-40°	729.7	18.6
40°-50°	739.3	18.8
50°-60°	643.5	16.4
60°-70°	438.5	11.2
70°-80°	175.3	4.5
80°-90°	20.1	0.5
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°	1183.6	30.1
0°-40°	1913.4	48.7
0°-60°	3296.2	83.9
0°-90°	3930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3930.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1554	1545	1551	1549	1550	147
15°	1475	1469	1480	1486	1489	416
25°	1329	1330	1346	1358	1367	612
35°	1131	1137	1163	1194	1213	707
45°	902	913	957	1002	1026	696
55°	659	674	723	768	784	589
65°	407	426	457	457	459	403
75°	167	177	169	145	136	180
85°	17	15	11	10	9	27
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-2HI-30-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1561.2	1551.1	1556.9	1555.8	1551.6
5°	1553.7	1544.7	1551.1	1549.0	1549.5
7.5°	1541.6	1533.1	1540.0	1539.5	1541.1
10°	1524.1	1515.7	1524.1	1524.6	1526.3
12.5°	1502.4	1495.1	1505.1	1507.2	1510.9
15°	1475.0	1468.6	1480.2	1485.6	1489.2
17.5°	1445.4	1441.2	1452.8	1459.7	1465.5
20°	1409.4	1407.3	1421.1	1427.9	1435.8
22.5°	1370.3	1369.2	1385.7	1394.1	1402.0
25°	1329.0	1329.6	1346.5	1357.6	1366.6
27.5°	1283.6	1284.6	1305.3	1318.5	1329.6
30°	1235.0	1237.6	1260.3	1278.3	1292.1
32.5°	1183.7	1188.4	1212.8	1237.6	1255.1
35°	1131.3	1136.7	1163.1	1193.7	1212.8
37.5°	1077.4	1083.3	1113.9	1149.9	1170.0
40°	1018.8	1027.7	1063.2	1102.8	1123.4
42.5°	961.1	971.1	1010.8	1054.2	1076.4
45°	901.9	913.0	956.9	1001.8	1025.6
47.5°	844.8	854.3	901.4	948.4	969.6
50°	781.9	794.6	843.8	890.8	913.5
52.5°	721.6	733.8	784.0	832.1	855.4
55°	659.2	673.5	722.7	768.2	784.5
57.5°	596.4	612.7	660.3	697.8	712.1
60°	534.0	550.3	594.8	624.3	634.9
62.5°	471.0	488.0	527.1	545.1	547.2
65°	407.1	426.1	456.8	457.3	459.4
67.5°	346.3	362.1	384.3	378.0	374.8
70°	281.3	298.7	307.7	295.0	287.6
72.5°	223.6	236.3	234.7	216.2	207.3
75°	167.1	177.1	168.6	144.9	135.9
77.5°	115.8	124.2	107.3	85.1	76.2
80°	72.9	76.7	58.2	41.2	34.9
82.5°	39.1	38.6	24.9	20.6	19.0
85°	16.9	15.3	11.1	10.0	9.0
87.5°	5.8	5.3	4.2	3.7	3.2
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	15.89	17.48	16.26	17.79	18.10	16.85	18.44	17.22	18.75	19.06
	3H	17.31	18.73	17.69	19.06	19.42	18.04	19.46	18.42	19.79	20.15
	4H	17.71	19.04	18.11	19.39	19.77	18.26	19.59	18.66	19.94	20.32
	6H	17.88	19.11	18.29	19.48	19.87	18.28	19.51	18.69	19.87	20.26
	8H	17.89	19.07	18.32	19.46	19.86	18.25	19.43	18.68	19.82	20.22
	12H	17.88	19.01	18.31	19.39	19.82	18.23	19.35	18.66	19.73	20.16
4H	2H	16.55	17.89	16.95	18.23	18.61	17.33	18.66	17.73	19.01	19.39
	3H	18.13	19.24	18.54	19.64	20.04	18.68	19.78	19.09	20.18	20.58
	4H	18.61	19.60	19.04	20.01	20.45	18.95	19.94	19.38	20.35	20.79
	6H	18.85	19.71	19.30	20.15	20.61	19.00	19.86	19.45	20.30	20.76
	8H	18.87	19.67	19.33	20.12	20.58	18.97	19.78	19.44	20.22	20.69
	12H	18.87	19.59	19.35	20.06	20.53	18.95	19.67	19.43	20.15	20.62
8H	4H	18.74	19.55	19.21	19.99	20.46	19.06	19.86	19.52	20.31	20.77
	6H	19.02	19.68	19.52	20.17	20.65	19.12	19.78	19.62	20.27	20.75
	8H	19.06	19.65	19.57	20.16	20.65	19.10	19.69	19.61	20.20	20.68
	12H	19.07	19.59	19.58	20.08	20.65	19.08	19.60	19.59	20.09	20.66
12H	4H	18.73	19.44	19.21	19.92	20.39	19.05	19.77	19.53	20.24	20.71
	6H	18.99	19.58	19.50	20.09	20.58	19.10	19.69	19.61	20.20	20.69
	8H	19.05	19.57	19.56	20.07	20.63	19.10	19.62	19.61	20.11	20.67