

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: P1498756

Luminaire Tested: MAE-G-2-120-3LO-LO-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-LO-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

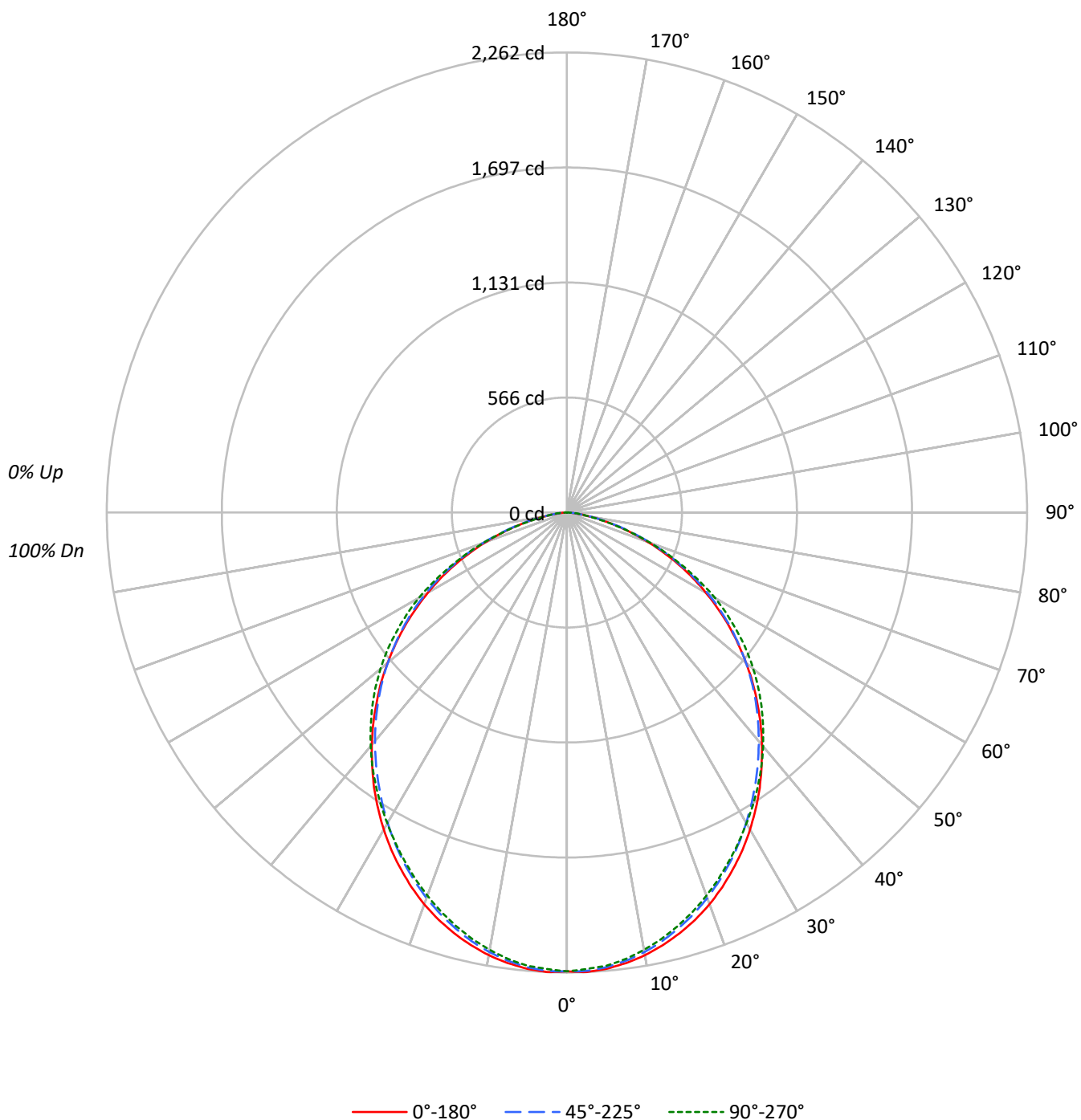
Lumens per Lamp: N/A
Luminaire Lumens: 5545.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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: P1498756

CATALOG NUMBER: MAE-G-2-120-3LO-LO-40-90-VRDCPH

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	92	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	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	44	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	29	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6071	6071	6071
5°	6082	6062	6042
10°	6040	5998	5967
15°	5967	5898	5864
20°	5870	5777	5742
25°	5741	5635	5609
30°	5595	5475	5486
35°	5428	5313	5381
40°	5240	5154	5271
45°	5035	4992	5149
50°	4812	4810	5006
55°	4560	4599	4799
60°	4248	4329	4527
65°	3860	3966	4057
70°	3326	3451	3434
75°	2643	2750	2585
80°	1782	1816	1706
85°	917	1149	1408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5149 cd/sqm

TEST NUMBER: P1498756

CATALOG NUMBER: MAE-G-2-120-3LO-LO-40-90-VRDCPH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.4	3.8
10°-20°	596.5	10.8
20°-30°	875.6	15.8
30°-40°	1018.9	18.4
40°-50°	1020.6	18.4
50°-60°	881.6	15.9
60°-70°	614.0	11.1
70°-80°	276.9	5.0
80°-90°	48.6	0.9
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°	1684.5	30.4
0°-40°	2703.4	48.8
0°-60°	4605.6	83.1
0°-90°	5545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2256	2256	2256	2256	2256	
5°	2252	2242	2244	2234	2237	214
15°	2142	2128	2117	2102	2105	604
25°	1934	1916	1898	1882	1889	890
35°	1652	1630	1617	1623	1638	1032
45°	1323	1307	1312	1336	1353	1021
55°	972	960	980	1012	1023	868
65°	606	603	623	635	637	599
75°	254	256	264	256	249	273
85°	30	32	37	43	46	44
90°	0	0	0	0	0	

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CATALOG NUMBER: MAE-G-2-120-3LO-LO-40-90-VRDCPH

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2256.2	2256.2	2256.2	2256.2	2256.2
2.5°	2261.8	2252.7	2256.2	2247.8	2246.4
5°	2251.6	2242.2	2244.3	2233.5	2236.6
7.5°	2234.2	2224.0	2223.4	2211.6	2214.4
10°	2210.5	2198.5	2195.2	2181.6	2183.7
12.5°	2178.9	2166.4	2159.9	2144.3	2147.8
15°	2141.9	2128.0	2117.2	2101.7	2104.8
17.5°	2098.9	2083.6	2070.5	2052.4	2057.7
20°	2049.7	2033.0	2017.4	1998.3	2005.1
22.5°	1994.5	1976.8	1959.1	1941.7	1948.5
25°	1933.6	1915.6	1898.0	1882.1	1889.1
27.5°	1869.7	1849.6	1831.7	1819.9	1827.7
30°	1800.5	1779.6	1762.1	1754.3	1765.4
32.5°	1727.4	1706.7	1690.9	1689.7	1702.7
35°	1652.4	1630.4	1617.2	1622.9	1638.0
37.5°	1571.6	1553.0	1543.1	1555.6	1571.0
40°	1491.7	1472.2	1467.3	1484.2	1500.4
42.5°	1408.9	1391.4	1390.4	1412.6	1427.7
45°	1323.1	1306.9	1311.8	1336.5	1352.9
47.5°	1238.9	1222.3	1231.7	1259.0	1276.7
50°	1149.5	1135.7	1148.9	1179.5	1195.8
52.5°	1060.4	1047.3	1065.0	1097.4	1113.2
55°	972.0	959.9	980.2	1011.7	1023.0
57.5°	880.5	873.0	894.2	921.9	933.9
60°	789.3	782.7	804.4	830.4	841.2
62.5°	698.0	693.7	714.6	735.8	739.6
65°	606.2	603.2	622.9	634.8	637.2
67.5°	513.3	513.0	531.3	537.8	537.8
70°	422.7	421.4	438.6	440.9	436.4
72.5°	334.7	336.1	347.7	345.9	338.4
75°	254.2	255.8	264.5	255.6	248.6
77.5°	179.5	181.1	185.3	175.5	171.2
80°	115.0	118.5	117.2	113.0	110.1
82.5°	64.3	68.1	66.9	72.5	74.9
85°	29.7	32.1	37.2	43.1	45.6
87.5°	10.1	12.2	15.3	16.4	15.3
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	17.20	18.78	17.56	19.10	19.41	17.58	19.17	17.95	19.48	19.80
	3H	18.65	20.07	19.02	20.40	20.76	19.00	20.43	19.38	20.75	21.12
	4H	19.07	20.40	19.46	20.75	21.13	19.38	20.71	19.78	21.06	21.44
	6H	19.27	20.50	19.68	20.87	21.26	19.54	20.77	19.95	21.14	21.53
	8H	19.29	20.47	19.72	20.86	21.26	19.56	20.74	19.99	21.13	21.53
	12H	19.29	20.42	19.72	20.80	21.23	19.58	20.71	20.01	21.09	21.52
4H	2H	17.78	19.12	18.18	19.47	19.85	18.10	19.43	18.49	19.78	20.16
	3H	19.41	20.52	19.82	20.92	21.32	19.70	20.81	20.11	21.21	21.61
	4H	19.91	20.91	20.34	21.32	21.76	20.16	21.16	20.59	21.57	22.01
	6H	20.19	21.06	20.64	21.50	21.96	20.39	21.26	20.84	21.70	22.16
	8H	20.23	21.04	20.69	21.48	21.95	20.43	21.25	20.90	21.69	22.15
	12H	20.24	20.96	20.72	21.44	21.91	20.47	21.19	20.95	21.67	22.14
8H	4H	20.09	20.91	20.56	21.35	21.82	20.32	21.13	20.78	21.58	22.04
	6H	20.42	21.09	20.92	21.58	22.06	20.60	21.27	21.09	21.76	22.24
	8H	20.49	21.09	21.00	21.60	22.08	20.67	21.27	21.18	21.78	22.27
	12H	20.52	21.05	21.03	21.54	22.10	20.74	21.27	21.24	21.76	22.32
12H	4H	20.09	20.82	20.57	21.29	21.76	20.32	21.04	20.80	21.52	21.99
	6H	20.42	21.02	20.93	21.53	22.01	20.59	21.19	21.10	21.70	22.19
	8H	20.51	21.04	21.02	21.53	22.10	20.70	21.23	21.21	21.72	22.28