

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: P1498363

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498363
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-30-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

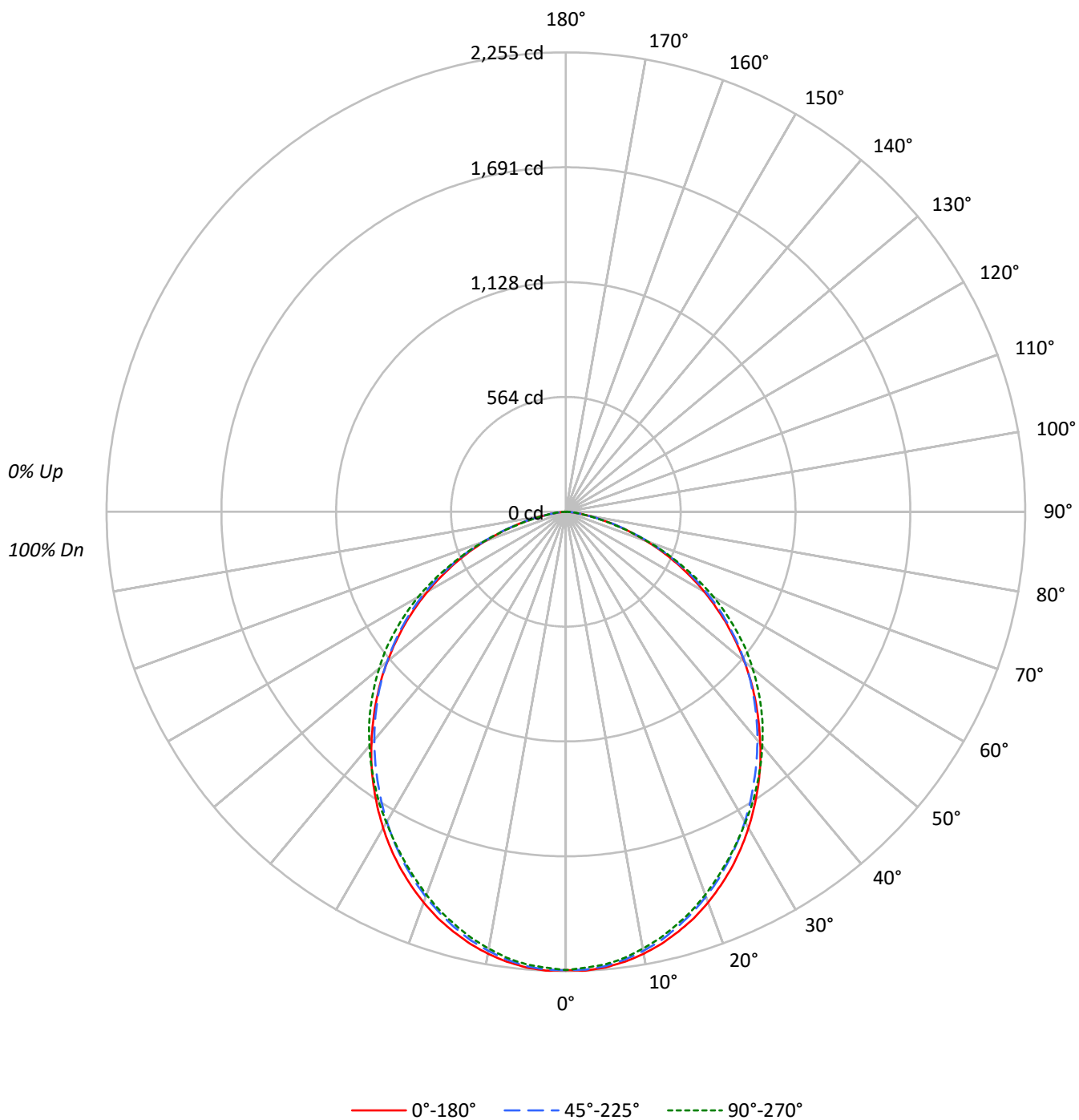
Lumens per Lamp: N/A
Luminaire Lumens: 5524.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P1498363

CATALOG NUMBER: MAE-G-2-120-2HI-LO-30-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	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	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	38		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		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°	6054	6054	6054
5°	6063	6046	6024
10°	6020	5983	5950
15°	5944	5883	5848
20°	5845	5759	5729
25°	5721	5616	5594
30°	5572	5460	5475
35°	5406	5294	5374
40°	5215	5139	5270
45°	5010	4979	5158
50°	4788	4802	5009
55°	4532	4587	4807
60°	4224	4317	4514
65°	3834	3943	4032
70°	3302	3403	3386
75°	2622	2686	2545
80°	1760	1757	1638
85°	883	1087	1331

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5158 cd/sqm

TEST NUMBER: P1498363

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	3.8
10°-20°	594.9	10.8
20°-30°	873.2	15.8
30°-40°	1016.5	18.4
40°-50°	1018.5	18.4
50°-60°	879.6	15.9
60°-70°	610.2	11.0
70°-80°	272.6	4.9
80°-90°	46.7	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°	1679.9	30.4
0°-40°	2696.4	48.8
0°-60°	4594.5	83.2
0°-90°	5524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2250	2250	2250	2250	2250	
5°	2245	2235	2238	2228	2230	213
15°	2134	2120	2112	2097	2099	601
25°	1927	1910	1892	1879	1884	887
35°	1646	1626	1612	1621	1636	1028
45°	1317	1301	1308	1337	1355	1016
55°	966	956	978	1011	1025	863
65°	602	602	619	628	633	596
75°	252	254	258	248	245	271
85°	29	31	35	41	43	43
90°	0	0	0	0	0	

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2249.8	2249.8	2249.8	2249.8	2249.8
2.5°	2254.7	2245.6	2249.8	2241.8	2239.9
5°	2244.6	2235.3	2238.1	2227.6	2230.0
7.5°	2227.4	2217.2	2217.6	2206.4	2209.0
10°	2203.0	2191.3	2189.4	2175.9	2177.6
12.5°	2172.2	2159.7	2154.7	2139.7	2142.7
15°	2133.7	2120.2	2111.7	2096.9	2099.2
17.5°	2091.5	2077.8	2064.1	2048.9	2053.7
20°	2041.2	2027.0	2011.0	1995.0	2000.7
22.5°	1985.8	1970.1	1954.1	1938.8	1943.1
25°	1926.7	1910.1	1891.5	1878.9	1884.0
27.5°	1862.4	1843.9	1826.3	1816.1	1823.3
30°	1793.3	1774.5	1757.2	1752.4	1762.0
32.5°	1720.6	1701.9	1686.0	1688.7	1701.9
35°	1645.5	1625.8	1611.6	1621.4	1635.9
37.5°	1567.5	1548.4	1538.0	1554.5	1569.7
40°	1484.5	1467.7	1462.9	1484.0	1500.1
42.5°	1401.5	1385.8	1386.5	1412.3	1429.7
45°	1316.6	1301.4	1308.2	1336.9	1355.4
47.5°	1232.8	1217.0	1229.0	1260.4	1277.0
50°	1143.6	1131.0	1147.0	1179.7	1196.6
52.5°	1054.7	1043.2	1063.2	1097.7	1116.7
55°	966.0	956.2	977.8	1011.3	1024.7
57.5°	875.2	869.1	891.7	920.4	933.1
60°	784.9	779.7	802.2	827.4	838.7
62.5°	693.6	690.1	711.7	730.6	736.3
65°	602.1	601.6	619.3	627.6	633.3
67.5°	512.7	511.6	527.0	532.7	533.4
70°	419.7	421.5	432.5	432.8	430.3
72.5°	334.7	335.1	341.9	337.4	333.1
75°	252.2	253.5	258.3	248.5	244.8
77.5°	177.2	181.1	179.4	170.6	167.2
80°	113.6	118.0	113.4	108.5	105.7
82.5°	63.2	65.9	63.9	69.0	71.0
85°	28.6	30.9	35.2	40.9	43.1
87.5°	9.7	11.8	14.6	15.4	14.5
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	17.18	18.76	17.54	19.08	19.39	17.59	19.17	17.95	19.48	19.80
	3H	18.63	20.06	19.01	20.38	20.75	18.98	20.40	19.36	20.73	21.09
	4H	19.05	20.39	19.45	20.74	21.11	19.34	20.68	19.74	21.03	21.40
	6H	19.25	20.49	19.66	20.85	21.24	19.49	20.73	19.91	21.09	21.49
	8H	19.27	20.45	19.70	20.84	21.24	19.52	20.69	19.94	21.08	21.48
	12H	19.27	20.40	19.70	20.78	21.21	19.53	20.65	19.96	21.04	21.46
4H	2H	17.76	19.10	18.16	19.45	19.82	18.09	19.43	18.49	19.78	20.15
	3H	19.39	20.50	19.80	20.90	21.30	19.67	20.78	20.08	21.18	21.58
	4H	19.89	20.89	20.32	21.30	21.74	20.11	21.11	20.54	21.52	21.96
	6H	20.17	21.03	20.62	21.48	21.93	20.33	21.20	20.78	21.64	22.10
	8H	20.20	21.01	20.67	21.46	21.92	20.37	21.18	20.83	21.62	22.09
	12H	20.21	20.94	20.69	21.42	21.89	20.40	21.12	20.88	21.60	22.07
8H	4H	20.07	20.88	20.53	21.32	21.79	20.27	21.08	20.73	21.52	21.99
	6H	20.39	21.06	20.89	21.55	22.03	20.53	21.20	21.03	21.69	22.17
	8H	20.45	21.05	20.97	21.56	22.05	20.59	21.19	21.11	21.70	22.19
	12H	20.48	21.01	20.99	21.50	22.07	20.65	21.18	21.16	21.67	22.24
12H	4H	20.06	20.79	20.54	21.26	21.73	20.26	20.99	20.74	21.46	21.93
	6H	20.38	20.98	20.90	21.49	21.98	20.52	21.12	21.03	21.63	22.12
	8H	20.48	21.01	20.99	21.50	22.06	20.62	21.15	21.13	21.64	22.20