

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: P1499032

Luminaire Tested: MAE-G-4-120-1LO-LO-30-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499032
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-4-120-1LO-LO-30-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

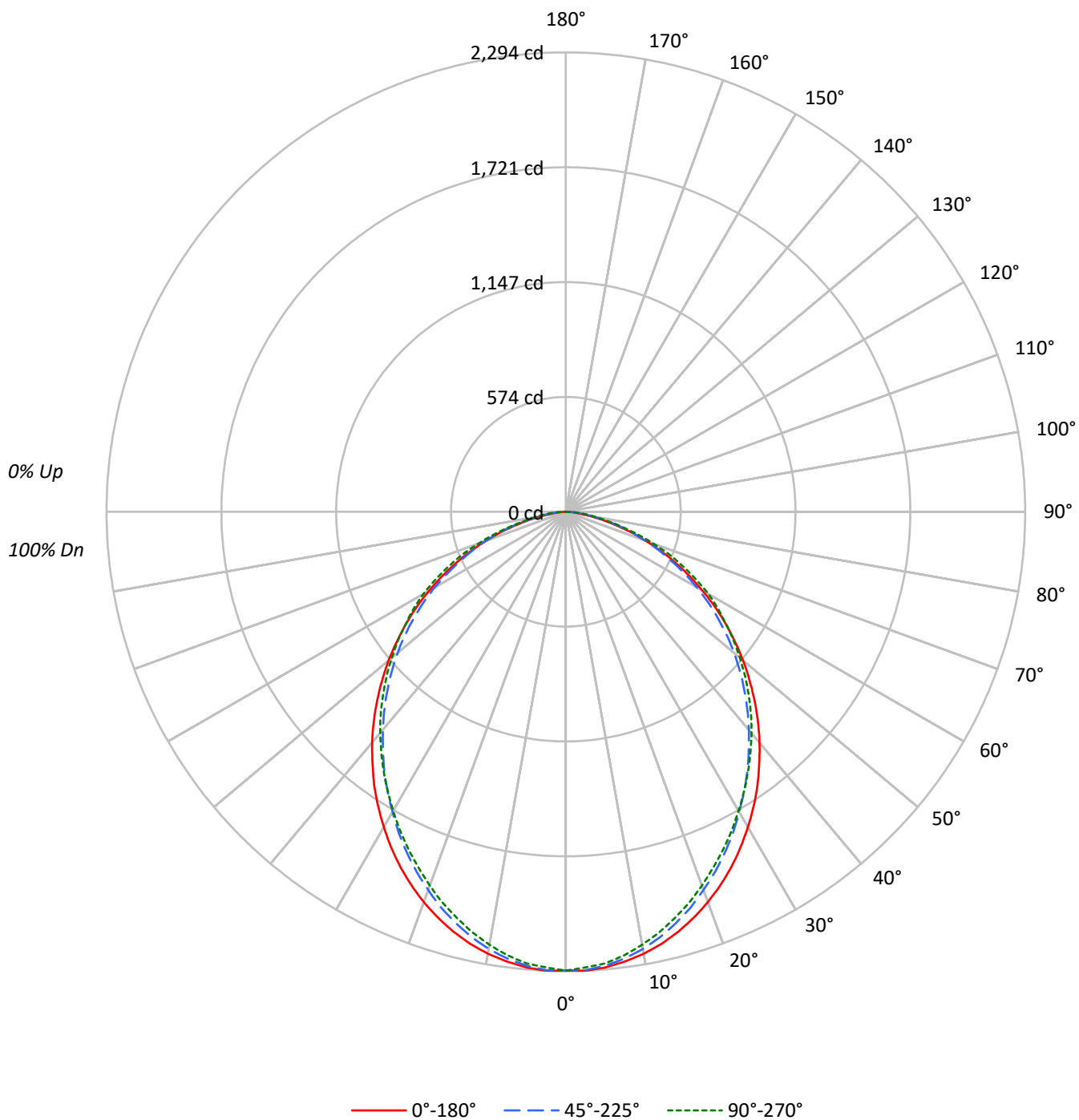
Lumens per Lamp: N/A
Luminaire Lumens: 5483.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 72.2
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

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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			0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	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	82	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°	3083	3083	3083
5°	3084	3072	3057
10°	3062	3028	3000
15°	3023	2961	2925
20°	2970	2878	2844
25°	2904	2789	2761
30°	2825	2690	2680
35°	2740	2596	2604
40°	2643	2497	2533
45°	2535	2399	2455
50°	2419	2295	2374
55°	2285	2174	2288
60°	2121	2034	2212
65°	1930	1854	2057
70°	1674	1666	1833
75°	1336	1419	1506
80°	924	1096	1195
85°	516	835	1087

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2535 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.1	3.9
10°-20°	599.6	10.9
20°-30°	871.0	15.9
30°-40°	1002.3	18.3
40°-50°	992.1	18.1
50°-60°	849.5	15.5
60°-70°	599.1	10.9
70°-80°	291.1	5.3
80°-90°	63.4	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°	1685.6	30.7
0°-40°	2687.9	49.0
0°-60°	4529.4	82.6
0°-90°	5483.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5483.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2283	2281	2275	2258	2264	217
15°	2170	2158	2126	2097	2100	611
25°	1956	1928	1879	1855	1860	900
35°	1668	1629	1580	1574	1585	1042
45°	1332	1296	1261	1276	1290	1027
55°	974	941	927	954	976	870
65°	606	580	582	627	646	600
75°	257	246	273	289	290	277
85°	33	41	54	66	70	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.2	2291.2	2291.2	2291.2	2291.2
2.5°	2293.9	2295.8	2291.2	2274.1	2277.1
5°	2283.4	2281.4	2274.6	2258.5	2263.6
7.5°	2265.1	2262.0	2249.7	2230.7	2234.0
10°	2241.0	2234.7	2216.5	2192.7	2195.5
12.5°	2209.6	2201.1	2175.5	2148.5	2151.5
15°	2170.4	2158.3	2125.5	2097.1	2100.2
17.5°	2125.2	2111.5	2071.9	2041.1	2047.6
20°	2074.3	2055.6	2010.0	1980.9	1986.5
22.5°	2018.0	1994.6	1946.9	1918.6	1923.0
25°	1956.1	1927.7	1878.6	1854.6	1859.8
27.5°	1889.4	1858.1	1807.6	1785.7	1793.7
30°	1818.3	1784.5	1731.1	1715.9	1724.8
32.5°	1745.2	1709.2	1656.6	1646.9	1655.7
35°	1668.4	1629.2	1580.2	1574.3	1585.4
37.5°	1586.2	1548.5	1500.1	1503.9	1514.3
40°	1504.8	1465.8	1421.6	1429.9	1442.4
42.5°	1420.2	1382.7	1342.2	1353.9	1368.4
45°	1332.1	1296.2	1260.8	1276.4	1290.3
47.5°	1243.6	1208.1	1179.4	1197.5	1214.0
50°	1155.7	1121.7	1096.6	1118.5	1134.2
52.5°	1063.5	1031.1	1013.1	1036.3	1056.3
55°	974.2	941.2	926.7	954.3	975.5
57.5°	881.8	854.8	842.2	874.7	901.2
60°	788.1	761.3	755.9	797.0	822.1
62.5°	696.4	670.1	667.8	715.8	733.9
65°	606.1	580.2	582.2	626.6	646.0
67.5°	516.7	493.0	503.9	546.5	559.5
70°	425.6	404.4	423.6	459.5	466.0
72.5°	340.1	322.4	348.3	373.4	375.0
75°	257.0	246.1	272.9	289.4	289.6
77.5°	184.0	178.2	202.9	214.2	214.9
80°	119.3	121.9	141.4	150.3	154.2
82.5°	69.6	75.7	90.9	105.9	110.0
85°	33.4	40.8	54.1	65.7	70.4
87.5°	11.6	16.5	22.6	25.0	24.4
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	14.71	16.29	15.08	16.61	16.92	14.88	16.46	15.24	16.78	17.09
	3H	16.16	17.58	16.54	17.91	18.27	16.52	17.95	16.90	18.28	18.64
	4H	16.59	17.93	16.99	18.27	18.65	17.03	18.36	17.42	18.71	19.09
	6H	16.81	18.04	17.22	18.41	18.80	17.32	18.56	17.73	18.92	19.32
	8H	16.84	18.02	17.27	18.41	18.81	17.41	18.59	17.83	18.98	19.38
	12H	16.85	17.98	17.28	18.36	18.79	17.47	18.60	17.90	18.98	19.41
4H	2H	15.22	16.56	15.62	16.91	17.29	15.36	16.70	15.76	17.05	17.43
	3H	16.86	17.97	17.27	18.37	18.77	17.21	18.33	17.62	18.73	19.13
	4H	17.37	18.38	17.80	18.79	19.23	17.83	18.83	18.26	19.25	19.68
	6H	17.67	18.55	18.13	18.99	19.45	18.23	19.10	18.68	19.54	20.00
	8H	17.73	18.55	18.19	18.99	19.45	18.35	19.16	18.81	19.61	20.07
	12H	17.75	18.48	18.23	18.96	19.43	18.45	19.18	18.93	19.65	20.12
8H	4H	17.60	18.41	18.06	18.86	19.32	18.01	18.82	18.47	19.27	19.73
	6H	17.96	18.64	18.46	19.13	19.61	18.49	19.16	18.98	19.65	20.13
	8H	18.05	18.66	18.56	19.17	19.65	18.66	19.27	19.17	19.78	20.26
	12H	18.11	18.64	18.61	19.13	19.69	18.82	19.35	19.33	19.85	20.41
12H	4H	17.61	18.34	18.09	18.82	19.29	18.01	18.74	18.49	19.22	19.69
	6H	17.99	18.59	18.50	19.10	19.59	18.49	19.10	19.00	19.61	20.09
	8H	18.11	18.65	18.62	19.14	19.70	18.71	19.25	19.22	19.74	20.30