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: P1499050

Luminaire Tested: MAE-G-4-120-1LO-LO-50-90-VRDCPH

Issue Date: 6/26/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1499050
	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-50-90-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:	5831.0 lumens
Efficiency:	N/A
Efficacy:	80.8 lumens/watt
Spacing Criteria (0/90/45):	1.18 / 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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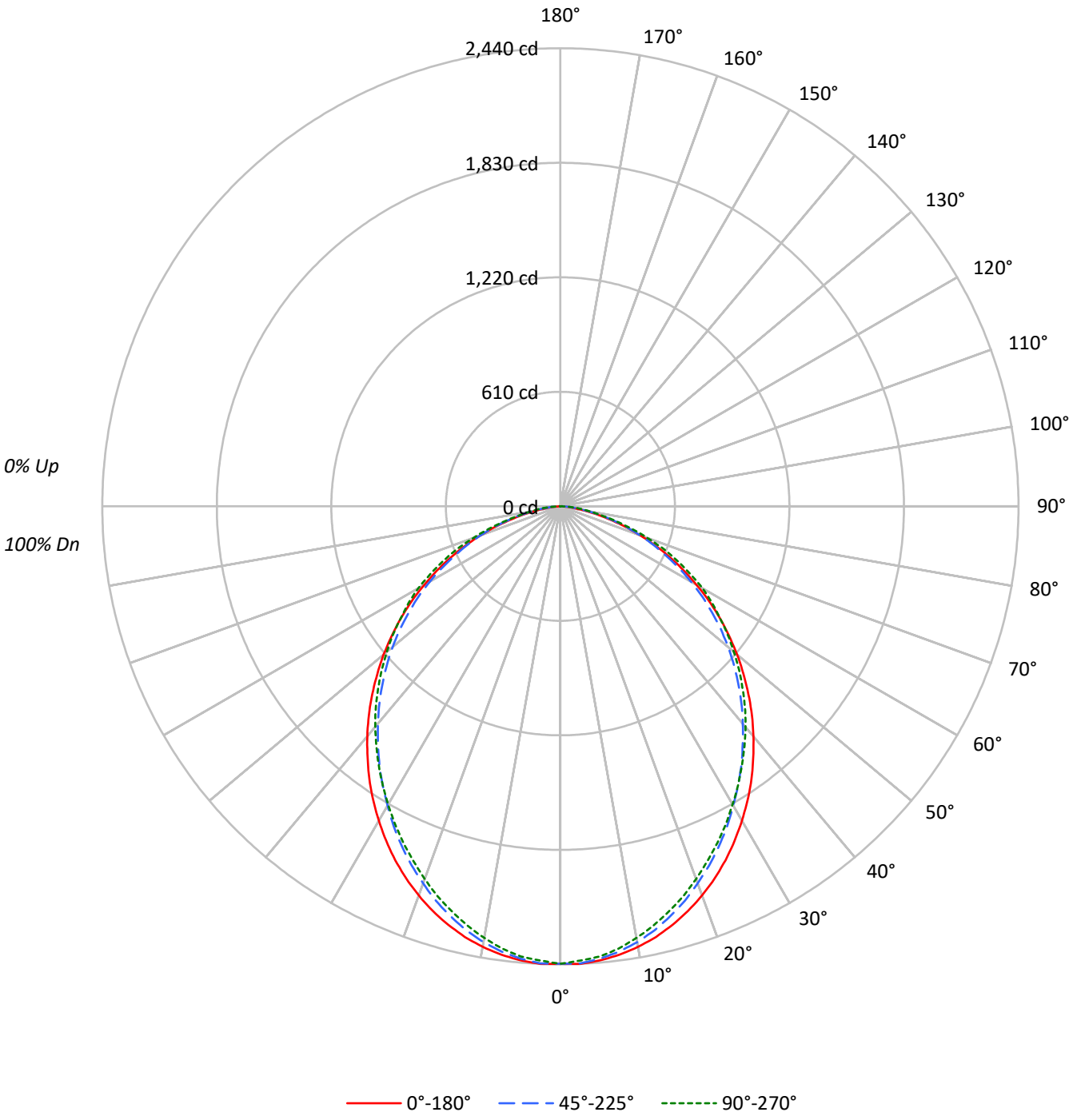
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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°	3279	3279	3279
5°	3280	3267	3251
10°	3256	3220	3190
15°	3215	3149	3111
20°	3158	3061	3025
25°	3088	2966	2936
30°	3004	2860	2850
35°	2914	2760	2769
40°	2811	2655	2694
45°	2696	2552	2611
50°	2573	2441	2525
55°	2430	2312	2434
60°	2255	2163	2353
65°	2052	1971	2188
70°	1781	1772	1950
75°	1421	1509	1601
80°	983	1165	1270
85°	548	889	1156

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2696 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.7	3.9
10°-20°	637.6	10.9
20°-30°	926.2	15.9
30°-40°	1065.9	18.3
40°-50°	1055.0	18.1
50°-60°	903.3	15.5
60°-70°	637.1	10.9
70°-80°	309.6	5.3
80°-90°	67.4	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°	1792.6	30.7
0°-40°	2858.5	49.0
0°-60°	4816.9	82.6
0°-90°	5831.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5831.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2437	2437	2437	2437	2437	
5°	2428	2426	2419	2402	2407	230
15°	2308	2295	2260	2230	2234	650
25°	2080	2050	1998	1972	1978	957
35°	1774	1733	1680	1674	1686	1108
45°	1417	1378	1341	1357	1372	1093
55°	1036	1001	985	1015	1037	925
65°	645	617	619	666	687	638
75°	273	262	290	308	308	295
85°	36	43	58	70	75	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2436.7	*2436.7*	2436.7	2436.7	2436.7
2.5°	*2439.5*	*2441.5*	*2436.7*	*2418.4*	*2421.6*
5°	2428.3	*2426.2*	2419.0	2401.8	2407.3
7.5°	2408.9	*2405.6*	2392.6	2372.3	2375.8
10°	2383.2	*2376.5*	2357.1	2331.8	2334.8
12.5°	2349.8	*2340.9*	2313.6	2284.8	2288.0
15°	2308.1	*2295.2*	2260.5	2230.3	2233.5
17.5°	2260.2	*2245.5*	2203.4	2170.7	2177.6
20°	2205.9	*2186.0*	2137.6	2106.6	2112.5
22.5°	2146.2	*2121.1*	2070.4	2040.5	2045.1
25°	2080.3	*2050.0*	1997.9	1972.3	1977.8
27.5°	2009.4	*1975.9*	1922.4	1899.0	1907.6
30°	1933.6	*1897.7*	1841.0	1824.8	1834.2
32.5°	1855.9	*1817.7*	1761.7	1751.4	1760.8
35°	1774.3	*1732.6*	1680.5	1674.3	1686.0
37.5°	1686.8	*1646.8*	1595.3	1599.3	1610.3
40°	1600.3	*1558.9*	1511.8	1520.7	1534.0
42.5°	1510.3	*1470.4*	1427.4	1439.8	1455.3
45°	1416.6	*1378.4*	1341.0	1357.4	1372.2
47.5°	1322.5	*1284.7*	1254.2	1273.5	1291.1
50°	1229.1	*1192.8*	1166.1	1189.5	1206.1
52.5°	1131.1	*1096.5*	1077.3	1102.1	1123.3
55°	1036.0	*1000.8*	985.4	1014.9	1037.4
57.5°	937.8	*908.9*	895.6	930.2	958.3
60°	838.1	*809.6*	803.9	847.6	874.3
62.5°	740.6	*712.7*	710.2	761.3	780.5
65°	644.6	*617.1*	619.2	666.3	687.1
67.5°	549.6	*524.3*	535.9	581.1	595.0
70°	452.7	*430.1*	450.5	488.7	495.6
72.5°	361.7	*342.8*	370.4	397.2	398.8
75°	273.4	*261.7*	290.2	307.8	308.0
77.5°	195.7	*189.5*	215.8	227.8	228.6
80°	126.9	*129.7*	150.3	159.8	163.9
82.5°	74.0	*80.5*	96.7	112.7	116.9
85°	35.5	*43.4*	57.6	69.9	74.9
87.5°	12.3	*17.6*	24.0	26.6	25.9
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	14.92	16.51	15.29	16.82	17.13	15.09	16.68	15.46	16.99	17.30
	3H	16.37	17.80	16.75	18.12	18.48	16.74	18.16	17.11	18.49	18.85
	4H	16.80	18.14	17.20	18.49	18.86	17.24	18.58	17.64	18.93	19.30
	6H	17.02	18.26	17.43	18.62	19.02	17.53	18.77	17.95	19.14	19.53
	8H	17.06	18.24	17.48	18.62	19.02	17.62	18.80	18.05	19.19	19.59
	12H	17.06	18.19	17.49	18.57	19.00	17.68	18.81	18.11	19.20	19.62
4H	2H	15.44	16.78	15.84	17.12	17.50	15.58	16.92	15.98	17.26	17.64
	3H	17.07	18.19	17.48	18.59	18.99	17.43	18.54	17.84	18.94	19.34
	4H	17.59	18.59	18.02	19.00	19.44	18.04	19.05	18.47	19.46	19.90
	6H	17.89	18.76	18.34	19.20	19.66	18.44	19.31	18.89	19.75	20.21
	8H	17.94	18.76	18.40	19.20	19.67	18.56	19.38	19.02	19.82	20.29
	12H	17.97	18.70	18.45	19.17	19.64	18.66	19.39	19.14	19.87	20.34
8H	4H	17.81	18.63	18.27	19.07	19.54	18.22	19.04	18.68	19.48	19.95
	6H	18.18	18.85	18.67	19.34	19.82	18.70	19.38	19.20	19.87	20.34
	8H	18.27	18.87	18.78	19.38	19.87	18.88	19.48	19.39	19.99	20.48
	12H	18.32	18.85	18.83	19.34	19.91	19.03	19.57	19.54	20.06	20.62
12H	4H	17.82	18.55	18.30	19.03	19.50	18.22	18.95	18.70	19.43	19.90
	6H	18.20	18.81	18.71	19.31	19.80	18.71	19.31	19.22	19.82	20.31
	8H	18.33	18.86	18.84	19.35	19.92	18.93	19.46	19.43	19.95	20.51

END OF REPORT