

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: P1499065

Luminaire Tested: MAE-G-4-120-1LO-STD-35-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1499065
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-STD-35-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 LO ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

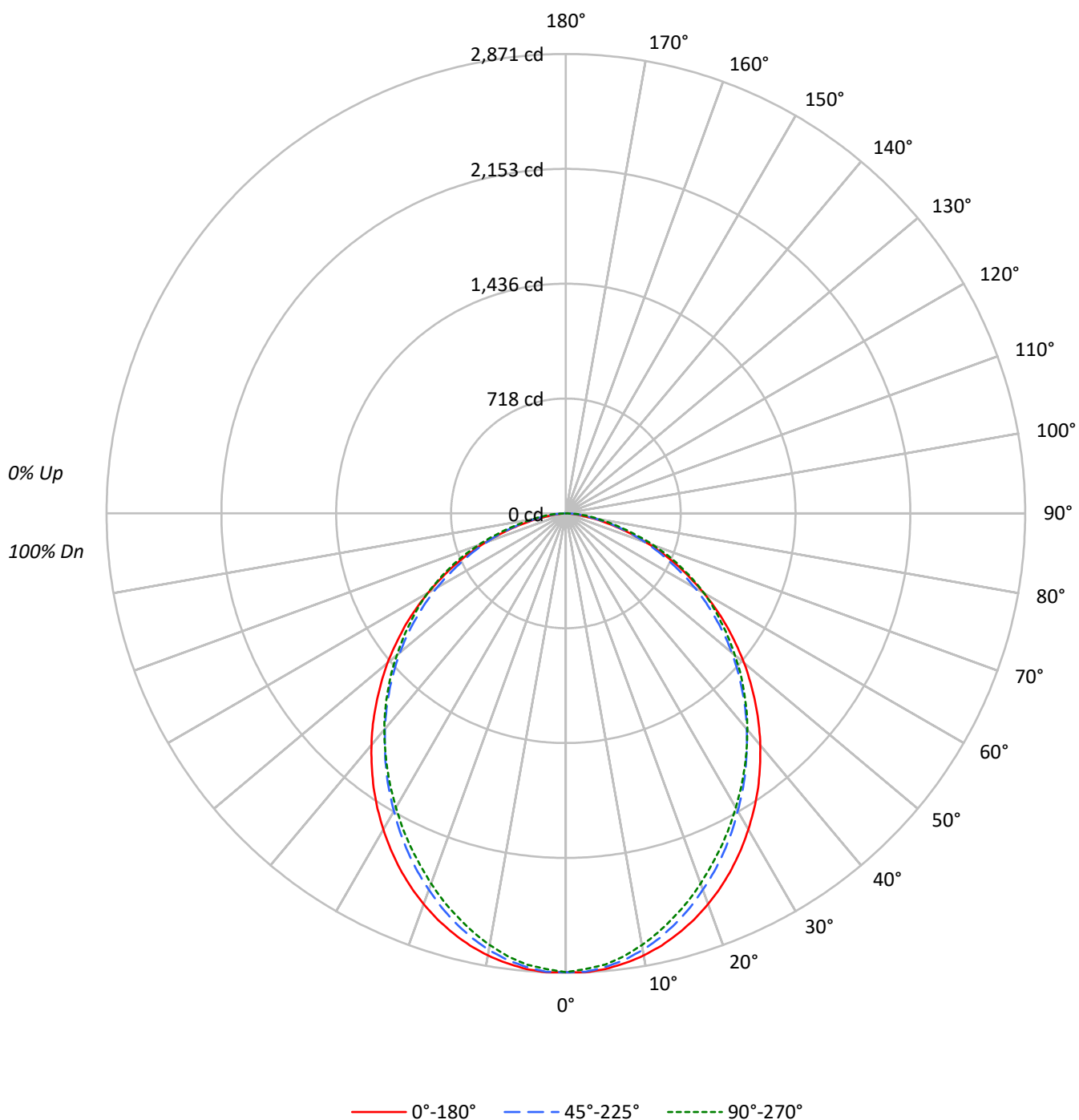
Lumens per Lamp: N/A
Luminaire Lumens: 6819.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 92.5
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	97	90	84	79	87	82	77	84	79	76	81	77	74	74	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	63	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	53
5	78	65	56	50	75	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	41
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	38	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	34	34	32
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	31	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	28	38	32	28	28	28	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3858	3858	3858
5°	3860	3844	3823
10°	3833	3785	3742
15°	3786	3695	3638
20°	3721	3585	3525
25°	3641	3467	3411
30°	3544	3338	3299
35°	3440	3216	3197
40°	3321	3089	3100
45°	3188	2964	2995
50°	3045	2833	2887
55°	2879	2681	2777
60°	2677	2507	2687
65°	2440	2291	2528
70°	2122	2077	2299
75°	1698	1800	1959
80°	1181	1436	1622
85°	664	1125	1494

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3188 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.0	3.9
10°-20°	748.1	11.0
20°-30°	1083.5	15.9
30°-40°	1243.5	18.2
40°-50°	1227.6	18.0
50°-60°	1049.1	15.4
60°-70°	743.4	10.9
70°-80°	370.6	5.4
80°-90°	84.4	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°	2100.5	30.8
0°-40°	3344.0	49.0
0°-60°	5620.6	82.4
0°-90°	6819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2868	2868	2868	2868	2868	
5°	2858	2856	2846	2824	2830	271
15°	2718	2700	2652	2609	2612	766
25°	2452	2411	2336	2294	2297	1129
35°	2095	2037	1958	1938	1946	1309
45°	1675	1620	1558	1563	1574	1292
55°	1228	1177	1143	1164	1184	1096
65°	766	726	720	771	794	758
75°	327	309	346	373	377	352
85°	43	53	73	90	97	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2867.6	2867.6	2867.6	2867.6	2867.6
2.5°	2870.8	2873.5	2867.6	2845.0	2849.7
5°	2858.0	2855.8	2846.2	2823.6	2830.3
7.5°	2835.5	2831.1	2813.8	2786.6	2790.7
10°	2805.5	2796.7	2770.6	2736.2	2739.2
12.5°	2766.5	2754.2	2717.1	2677.3	2680.0
15°	2717.9	2700.5	2652.5	2609.2	2611.5
17.5°	2662.2	2641.3	2582.8	2535.6	2541.8
20°	2599.1	2571.3	2503.5	2457.6	2462.0
22.5°	2529.2	2494.8	2422.8	2377.3	2379.5
25°	2452.4	2410.9	2335.6	2294.3	2297.3
27.5°	2369.7	2323.7	2245.0	2206.2	2212.0
30°	2281.3	2231.4	2148.6	2117.4	2123.7
32.5°	2190.3	2136.9	2054.6	2029.5	2035.9
35°	2094.6	2036.6	1957.9	1937.7	1946.2
37.5°	1992.2	1935.9	1857.5	1848.4	1855.9
40°	1890.6	1832.4	1758.9	1755.1	1765.1
42.5°	1784.8	1728.1	1659.5	1659.9	1671.9
45°	1675.2	1619.8	1557.8	1563.2	1574.2
47.5°	1564.5	1510.1	1456.5	1465.0	1479.2
50°	1454.8	1401.9	1353.2	1366.5	1379.0
52.5°	1338.9	1288.8	1249.6	1264.7	1282.8
55°	1227.5	1176.6	1142.8	1163.7	1183.9
57.5°	1111.9	1068.4	1038.3	1066.4	1093.1
60°	994.8	952.3	931.8	972.0	998.7
62.5°	879.7	838.4	824.0	875.1	896.4
65°	766.5	726.2	719.6	771.3	794.1
67.5°	653.6	617.3	624.1	676.8	693.1
70°	539.3	506.6	527.9	574.3	584.4
72.5°	431.3	404.3	437.2	473.0	477.6
75°	326.7	309.3	346.3	373.2	376.9
77.5°	234.2	225.0	261.2	282.1	286.5
80°	152.4	155.6	185.3	202.8	209.3
82.5°	89.1	97.7	121.5	143.7	150.3
85°	43.0	53.3	72.9	89.7	96.8
87.5°	14.7	21.6	30.6	34.1	33.1
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	15.51	17.10	15.88	17.41	17.73	15.49	17.07	15.86	17.39	17.70
	3H	16.98	18.40	17.35	18.73	19.09	17.19	18.62	17.57	18.95	19.31
	4H	17.41	18.75	17.81	19.10	19.48	17.75	19.09	18.15	19.43	19.81
	6H	17.64	18.88	18.05	19.24	19.63	18.10	19.34	18.51	19.70	20.09
	8H	17.68	18.86	18.10	19.25	19.65	18.21	19.39	18.63	19.78	20.18
	12H	17.68	18.81	18.11	19.19	19.62	18.29	19.42	18.72	19.80	20.23
4H	2H	16.01	17.35	16.41	17.70	18.08	15.99	17.33	16.39	17.68	18.06
	3H	17.66	18.78	18.07	19.18	19.58	17.90	19.02	18.31	19.42	19.82
	4H	18.18	19.19	18.62	19.60	20.04	18.58	19.58	19.01	20.00	20.43
	6H	18.49	19.37	18.95	19.81	20.27	19.04	19.92	19.50	20.36	20.82
	8H	18.55	19.37	19.02	19.82	20.28	19.19	20.01	19.65	20.45	20.92
	12H	18.58	19.31	19.06	19.79	20.26	19.31	20.04	19.79	20.52	20.99
8H	4H	18.42	19.24	18.88	19.68	20.15	18.77	19.59	19.23	20.03	20.50
	6H	18.80	19.48	19.29	19.97	20.44	19.33	20.00	19.82	20.49	20.97
	8H	18.89	19.50	19.40	20.01	20.49	19.54	20.14	20.05	20.65	21.14
	12H	18.95	19.49	19.46	19.98	20.54	19.72	20.26	20.23	20.75	21.32
12H	4H	18.43	19.17	18.92	19.64	20.11	18.77	19.51	19.25	19.98	20.45
	6H	18.83	19.44	19.34	19.94	20.43	19.34	19.94	19.85	20.45	20.94
	8H	18.96	19.50	19.47	19.99	20.55	19.59	20.13	20.10	20.62	21.18