

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: P1498540

Luminaire Tested: MAE-G-2-120-2STD-HI-40-90-VRDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498540
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-2-120-2STD-HI-40-90-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 2 STD ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

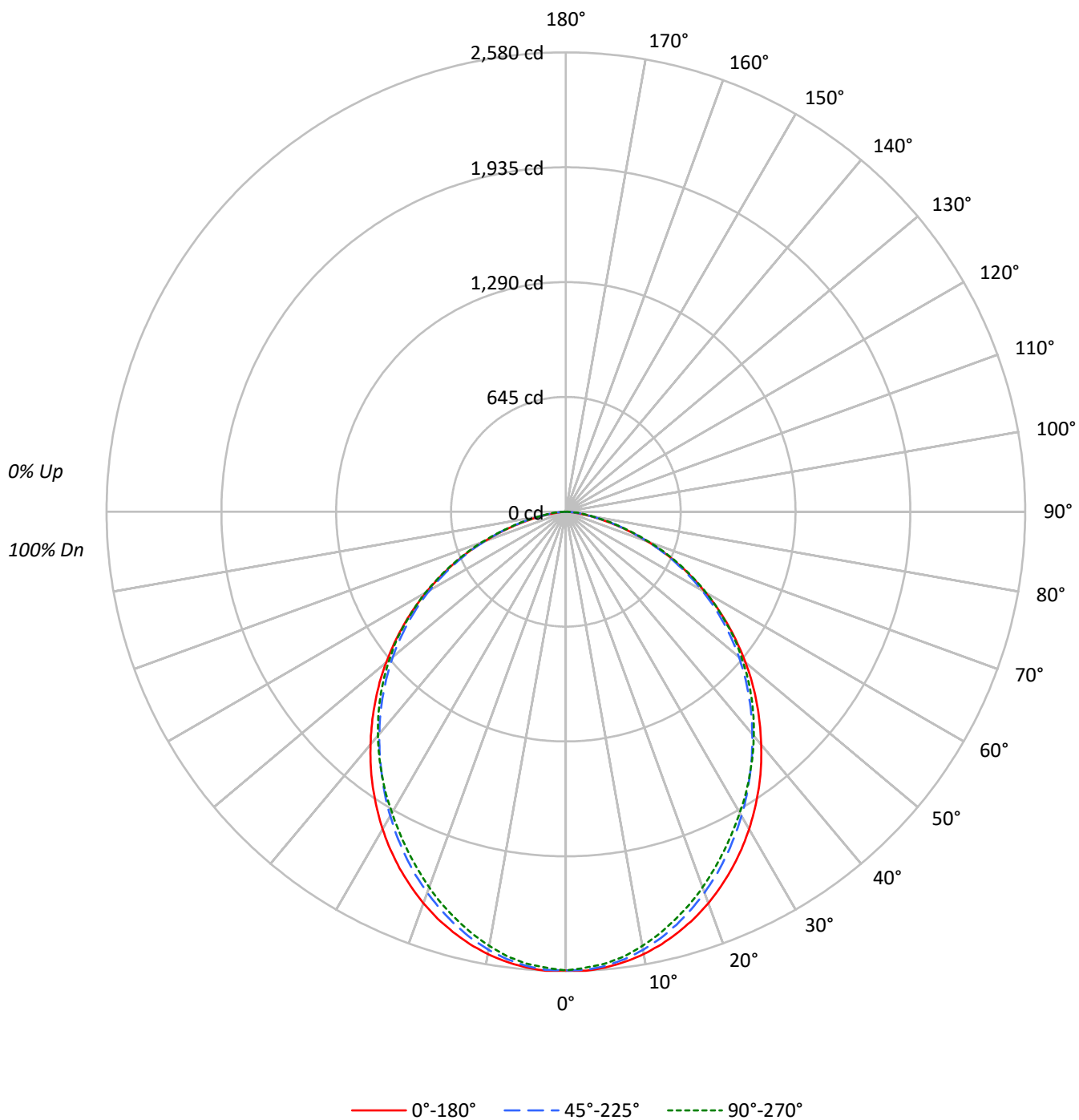
Lumens per Lamp: N/A
Luminaire Lumens: 6229.1 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.14 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 77.3
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
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	80	98	90	85	79	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	56		66	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	55	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6931	6931	6931
5°	6940	6916	6881
10°	6893	6827	6765
15°	6809	6688	6605
20°	6700	6518	6429
25°	6561	6331	6239
30°	6396	6129	6068
35°	6210	5922	5918
40°	5997	5725	5767
45°	5767	5525	5610
50°	5516	5312	5418
55°	5227	5061	5191
60°	4880	4753	4908
65°	4443	4355	4498
70°	3843	3836	3946
75°	3070	3168	3221
80°	2092	2292	2402
85°	1093	1606	2093

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.0	3.9
10°-20°	676.3	10.9
20°-30°	986.1	15.8
30°-40°	1140.5	18.3
40°-50°	1135.4	18.2
50°-60°	976.2	15.7
60°-70°	684.3	11.0
70°-80°	323.9	5.2
80°-90°	64.4	1.0
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°	1904.5	30.6
0°-40°	3045.0	48.9
0°-60°	5156.6	82.8
0°-90°	6229.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6229.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2576	2576	2576	2576	2576	
5°	2569	2561	2560	2544	2547	244
15°	2444	2426	2401	2370	2371	689
25°	2210	2180	2132	2100	2101	1017
35°	1890	1851	1803	1793	1801	1181
45°	1515	1479	1452	1463	1474	1169
55°	1114	1084	1079	1097	1106	995
65°	698	680	684	698	706	690
75°	295	289	305	308	310	318
85°	35	41	52	63	68	52
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2575.5	2575.5	2575.5	2575.5	2575.5
2.5°	2580.4	2573.4	2575.5	2562.6	2563.0
5°	2569.3	2561.0	2560.3	2543.6	2547.4
7.5°	2549.6	2539.4	2534.1	2514.6	2517.8
10°	2522.5	2509.3	2498.5	2474.3	2475.7
12.5°	2487.5	2472.0	2454.3	2426.1	2428.1
15°	2444.2	2426.1	2400.7	2370.1	2370.9
17.5°	2396.1	2375.8	2341.5	2308.6	2311.9
20°	2339.6	2316.5	2276.1	2242.0	2245.0
22.5°	2276.8	2250.3	2207.5	2173.1	2173.8
25°	2209.6	2179.8	2132.3	2100.2	2101.3
27.5°	2136.7	2103.4	2054.1	2024.4	2027.3
30°	2058.3	2023.0	1972.5	1948.2	1952.7
32.5°	1975.9	1938.9	1889.3	1872.3	1879.9
35°	1890.3	1850.9	1802.6	1792.7	1801.4
37.5°	1801.0	1762.2	1716.8	1714.0	1722.9
40°	1707.1	1669.6	1629.8	1631.7	1641.8
42.5°	1612.2	1575.8	1541.8	1548.8	1559.6
45°	1515.4	1478.9	1451.9	1462.7	1474.2
47.5°	1418.7	1382.4	1361.9	1375.6	1385.9
50°	1317.7	1284.2	1268.8	1284.7	1294.2
52.5°	1214.9	1183.7	1174.5	1192.4	1205.4
55°	1114.1	1084.3	1078.7	1097.1	1106.4
57.5°	1010.2	985.1	982.6	999.9	1009.5
60°	906.7	883.1	883.2	901.5	911.9
62.5°	802.0	780.8	784.2	801.5	809.6
65°	697.8	680.1	683.9	698.2	706.4
67.5°	594.6	578.6	585.9	601.6	605.7
70°	488.5	476.3	487.6	499.5	501.5
72.5°	390.4	379.7	393.2	401.7	401.8
75°	295.3	288.7	304.7	308.5	309.8
77.5°	208.9	208.3	220.3	224.4	226.4
80°	135.0	139.5	147.9	154.3	155.0
82.5°	76.4	81.6	90.2	103.0	108.0
85°	35.4	40.8	52.0	63.1	67.8
87.5°	11.9	16.0	22.0	23.9	22.7
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	17.66	19.24	18.02	19.55	19.87	17.74	19.33	18.11	19.64	19.95
	3H	19.13	20.55	19.51	20.88	21.24	19.26	20.69	19.64	21.02	21.38
	4H	19.56	20.90	19.96	21.24	21.62	19.72	21.06	20.12	21.41	21.79
	6H	19.77	21.01	20.18	21.37	21.77	19.98	21.21	20.39	21.58	21.97
	8H	19.80	20.98	20.23	21.37	21.77	20.04	21.22	20.46	21.61	22.01
	12H	19.80	20.93	20.23	21.31	21.74	20.08	21.21	20.51	21.59	22.02
4H	2H	18.20	19.53	18.60	19.88	20.26	18.27	19.61	18.67	19.95	20.33
	3H	19.85	20.96	20.26	21.36	21.76	19.98	21.09	20.39	21.49	21.89
	4H	20.37	21.37	20.80	21.78	22.22	20.54	21.54	20.97	21.95	22.39
	6H	20.66	21.53	21.11	21.97	22.43	20.88	21.75	21.33	22.19	22.65
	8H	20.71	21.52	21.17	21.96	22.43	20.97	21.79	21.43	22.23	22.69
	12H	20.72	21.45	21.20	21.93	22.40	21.04	21.77	21.52	22.25	22.72
8H	4H	20.56	21.38	21.03	21.82	22.29	20.72	21.53	21.18	21.98	22.44
	6H	20.92	21.59	21.41	22.08	22.56	21.13	21.80	21.62	22.29	22.77
	8H	20.99	21.60	21.51	22.10	22.59	21.26	21.87	21.77	22.37	22.86
	12H	21.03	21.57	21.54	22.06	22.62	21.38	21.91	21.89	22.40	22.97
12H	4H	20.57	21.30	21.05	21.77	22.24	20.72	21.45	21.20	21.92	22.39
	6H	20.92	21.53	21.44	22.04	22.52	21.13	21.73	21.64	22.24	22.73
	8H	21.04	21.57	21.54	22.06	22.62	21.30	21.83	21.81	22.33	22.89