

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: P1498751

Luminaire Tested: MAE-G-2-120-3LO-LO-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498751
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P189188)
Test Lab: INNOVATION CENTER
Issue Date: 6/26/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: MAE-G-2-120-3LO-LO-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 3 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

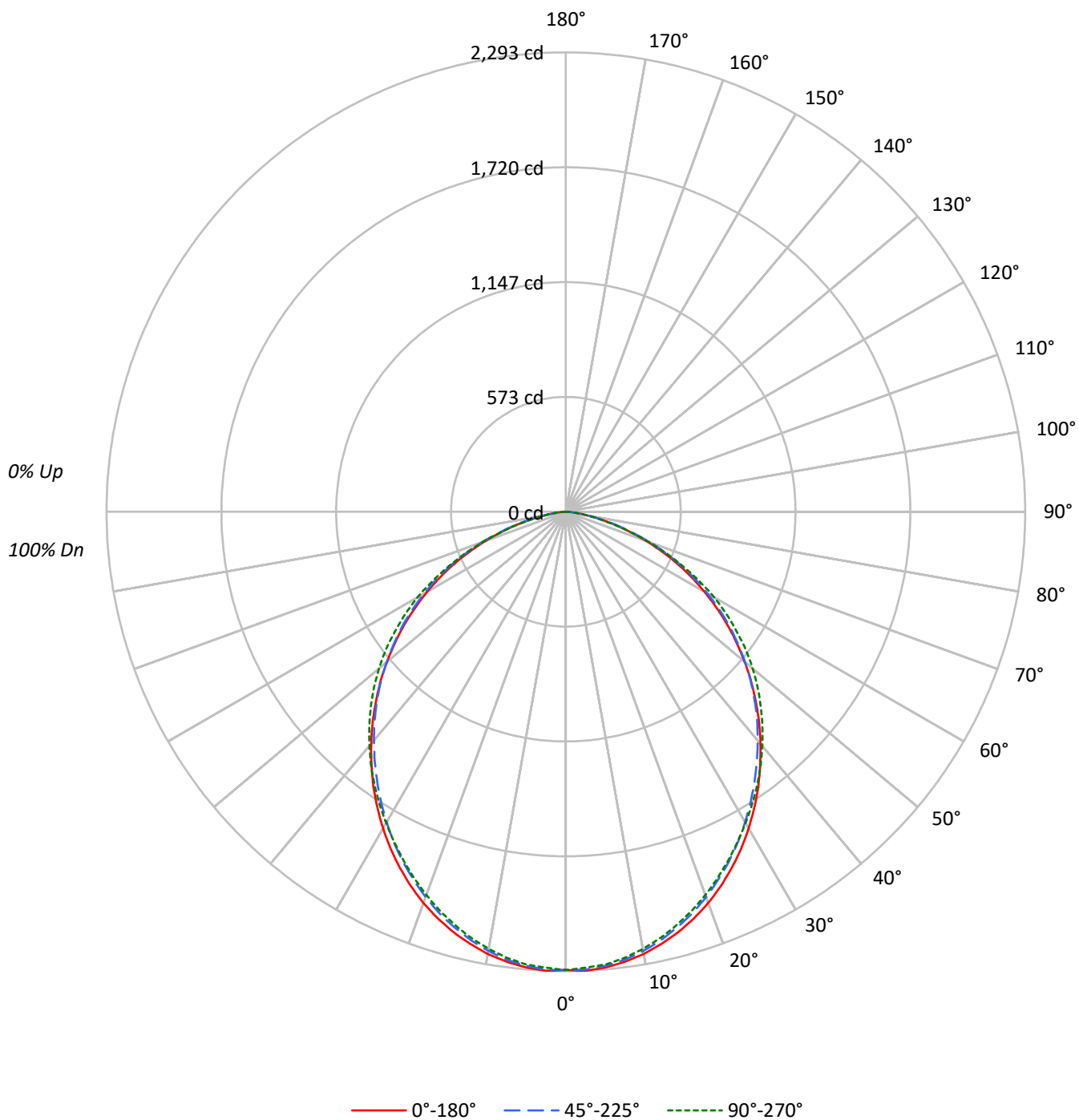
Lumens per Lamp: N/A
Luminaire Lumens: 5628.0 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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
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	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	88	86		
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72		
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61		
4	84	73	64	58	82	71	63	57	69	62	57	67	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	40		
7	67	53	45	39	65	53	44	39	51	44	38	50	43	38	48	42	38	36		
8	62	49	40	35	60	48	40	35	47	40	34	46	39	34	44	38	34	32		
9	58	45	37	31	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	54	41	34	29	53	41	33	28	40	33	28	39	33	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6156	6156	6156
5°	6167	6147	6127
10°	6124	6083	6053
15°	6050	5983	5951
20°	5951	5862	5830
25°	5820	5720	5697
30°	5671	5559	5574
35°	5503	5395	5470
40°	5311	5236	5360
45°	5104	5073	5238
50°	4877	4888	5095
55°	4622	4674	4885
60°	4304	4401	4606
65°	3910	4031	4121
70°	3368	3503	3478
75°	2676	2783	2601
80°	1802	1826	1698
85°	926	1145	1392

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5238 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.4	3.8
10°-20°	605.1	10.8
20°-30°	888.6	15.8
30°-40°	1034.4	18.4
40°-50°	1036.6	18.4
50°-60°	895.8	15.9
60°-70°	623.4	11.1
70°-80°	280.1	5.0
80°-90°	48.6	0.9
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°	1709.1	30.4
0°-40°	2743.5	48.7
0°-60°	4675.9	83.1
0°-90°	5628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5628.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2283	2273	2276	2265	2268	217
15°	2172	2158	2148	2133	2136	612
25°	1960	1943	1926	1911	1919	903
35°	1675	1654	1642	1649	1665	1046
45°	1341	1326	1333	1359	1376	1035
55°	985	974	996	1030	1041	879
65°	614	612	633	645	647	607
75°	257	260	268	258	250	276
85°	30	32	37	43	45	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2287.5	2287.5	2287.5	2287.5	2287.5
2.5°	2293.3	2283.8	2287.5	2279.3	2277.7
5°	2283.0	2273.3	2275.6	2265.0	2268.1
7.5°	2265.2	2254.9	2254.5	2243.0	2245.8
10°	2241.2	2229.0	2226.2	2212.9	2215.1
12.5°	2209.2	2196.6	2190.6	2175.5	2179.1
15°	2171.6	2157.7	2147.7	2132.8	2136.1
17.5°	2128.0	2112.7	2100.6	2083.3	2088.7
20°	2078.0	2061.5	2047.1	2028.6	2035.7
22.5°	2022.0	2004.6	1988.1	1971.6	1978.7
25°	1960.3	1942.6	1926.4	1911.3	1918.8
27.5°	1895.4	1875.7	1859.4	1848.6	1856.7
30°	1825.2	1804.8	1789.0	1782.2	1793.9
32.5°	1751.0	1730.9	1716.9	1716.9	1730.5
35°	1675.0	1653.7	1642.3	1649.3	1665.1
37.5°	1593.1	1575.2	1567.2	1581.2	1597.3
40°	1511.9	1493.3	1490.4	1508.9	1525.8
42.5°	1428.0	1411.5	1412.6	1436.4	1452.2
45°	1341.1	1325.8	1332.9	1359.2	1376.5
47.5°	1255.7	1240.1	1251.6	1280.5	1299.2
50°	1165.0	1152.1	1167.5	1200.0	1217.0
52.5°	1074.8	1062.5	1082.5	1116.6	1133.1
55°	985.1	973.9	996.3	1029.5	1041.3
57.5°	892.2	885.8	908.9	938.0	950.5
60°	799.8	794.3	817.8	844.7	855.9
62.5°	707.2	704.0	726.3	748.3	752.0
65°	614.1	612.0	633.1	644.9	647.2
67.5°	520.0	520.6	539.8	545.9	545.7
70°	428.1	427.7	445.2	446.8	442.0
72.5°	338.8	341.1	352.5	349.8	341.9
75°	257.4	259.5	267.7	257.8	250.2
77.5°	181.6	183.5	187.2	176.3	171.5
80°	116.3	119.8	117.8	112.7	109.6
82.5°	64.9	68.7	66.9	72.0	74.4
85°	30.0	32.2	37.1	42.9	45.1
87.5°	10.2	12.2	15.2	16.3	15.2
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	17.25	18.83	17.61	19.14	19.46	17.65	19.24	18.02	19.55	19.87
	3H	18.69	20.12	19.07	20.44	20.81	19.06	20.49	19.44	20.82	21.18
	4H	19.11	20.45	19.51	20.80	21.17	19.43	20.77	19.83	21.12	21.49
	6H	19.31	20.55	19.72	20.91	21.31	19.59	20.82	20.00	21.19	21.58
	8H	19.34	20.52	19.76	20.90	21.30	19.61	20.79	20.04	21.18	21.58
	12H	19.33	20.46	19.76	20.84	21.27	19.62	20.75	20.05	21.13	21.56
4H	2H	17.83	19.17	18.23	19.52	19.90	18.16	19.50	18.56	19.85	20.23
	3H	19.45	20.57	19.86	20.96	21.36	19.76	20.87	20.17	21.27	21.67
	4H	19.96	20.96	20.39	21.37	21.81	20.21	21.21	20.64	21.62	22.06
	6H	20.23	21.10	20.69	21.54	22.00	20.43	21.30	20.89	21.74	22.20
	8H	20.27	21.08	20.73	21.53	21.99	20.47	21.29	20.94	21.73	22.20
	12H	20.28	21.01	20.76	21.49	21.96	20.50	21.23	20.99	21.71	22.18
8H	4H	20.14	20.95	20.60	21.40	21.86	20.37	21.18	20.83	21.63	22.09
	6H	20.47	21.14	20.96	21.63	22.10	20.64	21.31	21.13	21.80	22.28
	8H	20.53	21.13	21.04	21.64	22.13	20.71	21.31	21.22	21.82	22.30
	12H	20.56	21.09	21.07	21.58	22.15	20.77	21.30	21.28	21.79	22.35
12H	4H	20.14	20.86	20.62	21.34	21.81	20.37	21.09	20.85	21.57	22.04
	6H	20.46	21.06	20.97	21.57	22.06	20.63	21.23	21.14	21.74	22.23
	8H	20.56	21.09	21.07	21.58	22.14	20.73	21.26	21.24	21.75	22.32