

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: P1498583

Luminaire Tested: MAE-G-2-120-2STD-STD-35-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498583
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-STD-35-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , STD exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

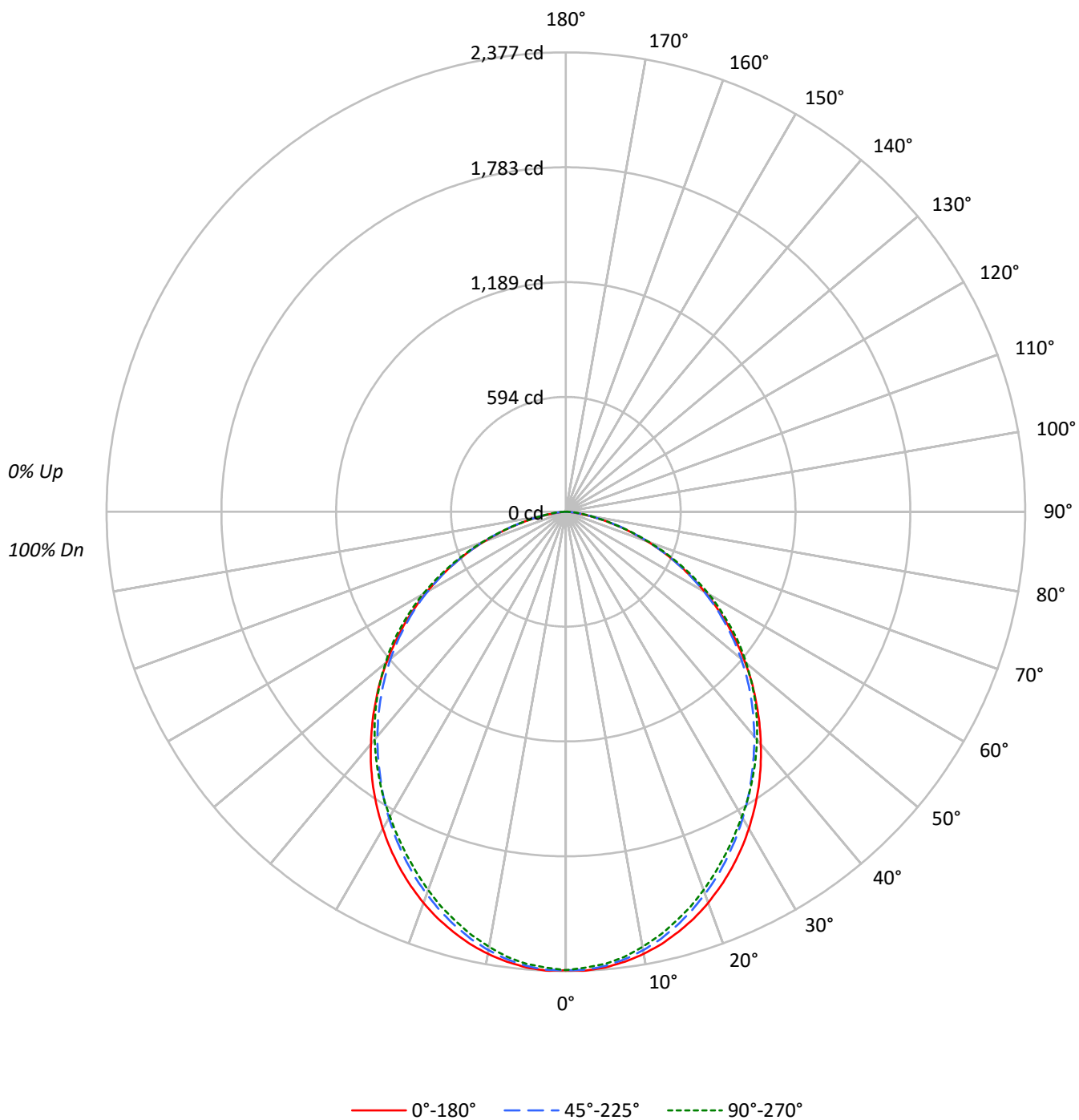
Lumens per Lamp: N/A
Luminaire Lumens: 5770.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.15 / 1.28
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.6
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	81	98	91	85	80	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	57		67	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	54	42	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6383	6383	6383
5°	6392	6371	6343
10°	6348	6295	6247
15°	6269	6176	6115
20°	6168	6029	5966
25°	6038	5866	5804
30°	5884	5688	5659
35°	5711	5503	5533
40°	5513	5328	5405
45°	5300	5150	5270
50°	5068	4957	5102
55°	4800	4728	4891
60°	4479	4444	4612
65°	4073	4066	4183
70°	3518	3554	3609
75°	2804	2884	2859
80°	1900	2011	2025
85°	976	1352	1729

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.1	3.9
10°-20°	624.5	10.8
20°-30°	912.9	15.8
30°-40°	1058.5	18.3
40°-50°	1056.4	18.3
50°-60°	909.8	15.8
60°-70°	635.2	11.0
70°-80°	294.1	5.1
80°-90°	55.5	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°	1760.5	30.5
0°-40°	2819.0	48.9
0°-60°	4785.3	82.9
0°-90°	5770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2366	2358	2359	2345	2348	224
15°	2250	2235	2217	2194	2195	634
25°	2034	2010	1976	1952	1955	936
35°	1738	1708	1675	1673	1684	1087
45°	1393	1366	1353	1371	1385	1074
55°	1023	1002	1008	1032	1042	914
65°	640	629	639	650	657	633
75°	270	266	277	276	275	290
85°	32	36	44	52	56	47
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2371.9	2371.9	2371.9	2371.9	2371.9
2.5°	2376.7	2369.0	2371.9	2361.4	2360.9
5°	2366.4	2357.9	2358.6	2344.9	2348.0
7.5°	2348.1	2338.3	2335.5	2319.7	2322.7
10°	2323.0	2310.7	2303.8	2284.6	2286.1
12.5°	2290.6	2276.7	2264.7	2242.5	2245.0
15°	2250.4	2234.8	2216.9	2193.5	2194.8
17.5°	2206.1	2189.0	2164.0	2139.1	2142.9
20°	2153.7	2134.8	2105.3	2079.5	2083.5
22.5°	2095.6	2074.2	2043.4	2017.7	2019.8
25°	2033.5	2009.8	1975.5	1952.0	1954.7
27.5°	1966.1	1939.8	1904.6	1883.6	1888.1
30°	1893.7	1866.0	1830.4	1814.6	1821.1
32.5°	1817.5	1789.0	1754.4	1745.7	1755.4
35°	1738.5	1708.2	1675.0	1673.3	1684.2
37.5°	1656.4	1626.5	1596.6	1601.6	1612.8
40°	1569.4	1541.4	1516.8	1526.4	1538.6
42.5°	1482.0	1455.0	1436.0	1450.4	1463.4
45°	1392.8	1365.8	1353.2	1370.9	1384.9
47.5°	1304.0	1276.9	1270.1	1290.6	1303.1
50°	1210.5	1186.4	1184.0	1206.4	1218.6
52.5°	1116.2	1093.9	1096.7	1120.7	1135.8
55°	1023.1	1002.2	1007.8	1031.7	1042.4
57.5°	927.4	910.7	918.3	939.8	950.3
60°	832.2	816.7	825.7	846.3	856.9
62.5°	735.8	722.3	733.0	750.5	757.4
65°	639.7	629.4	638.6	650.2	657.0
67.5°	544.9	535.3	545.7	556.9	559.6
70°	447.1	440.9	451.7	458.6	458.7
72.5°	357.0	351.0	361.5	364.5	362.8
75°	269.7	266.4	277.4	275.7	275.0
77.5°	190.2	191.5	197.7	196.4	196.2
80°	122.6	126.8	129.8	131.5	130.7
82.5°	69.0	73.0	77.1	86.4	90.0
85°	31.6	35.7	43.8	52.3	56.0
87.5°	10.7	13.8	18.4	19.8	18.7
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	17.37	18.95	17.73	19.26	19.58	17.58	19.16	17.94	19.48	19.79
	3H	18.83	20.26	19.21	20.58	20.94	19.05	20.47	19.43	20.80	21.16
	4H	19.26	20.60	19.66	20.94	21.32	19.47	20.81	19.87	21.16	21.53
	6H	19.47	20.70	19.88	21.07	21.46	19.68	20.92	20.09	21.28	21.67
	8H	19.49	20.67	19.92	21.06	21.46	19.73	20.91	20.15	21.30	21.70
	12H	19.49	20.62	19.92	21.00	21.43	19.76	20.89	20.19	21.27	21.70
4H	2H	17.92	19.26	18.32	19.61	19.99	18.10	19.43	18.49	19.78	20.16
	3H	19.57	20.68	19.98	21.08	21.48	19.75	20.87	20.16	21.26	21.67
	4H	20.08	21.08	20.51	21.49	21.93	20.27	21.27	20.70	21.68	22.12
	6H	20.36	21.23	20.82	21.68	22.13	20.56	21.43	21.01	21.87	22.33
	8H	20.41	21.22	20.87	21.66	22.13	20.63	21.44	21.09	21.88	22.35
	12H	20.42	21.15	20.90	21.63	22.10	20.68	21.41	21.16	21.89	22.36
8H	4H	20.27	21.08	20.73	21.52	21.99	20.44	21.25	20.90	21.69	22.16
	6H	20.61	21.28	21.10	21.77	22.25	20.79	21.46	21.28	21.95	22.43
	8H	20.68	21.28	21.19	21.79	22.28	20.89	21.50	21.41	22.00	22.49
	12H	20.72	21.25	21.22	21.74	22.30	20.99	21.52	21.50	22.01	22.57
12H	4H	20.27	20.99	20.75	21.47	21.94	20.44	21.16	20.92	21.64	22.11
	6H	20.61	21.21	21.12	21.72	22.21	20.79	21.39	21.30	21.90	22.38
	8H	20.72	21.25	21.22	21.74	22.30	20.93	21.46	21.44	21.95	22.51