

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: P1498568

Luminaire Tested: MAE-G-2-120-2STD-LO-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498568
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-LO-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 STD ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

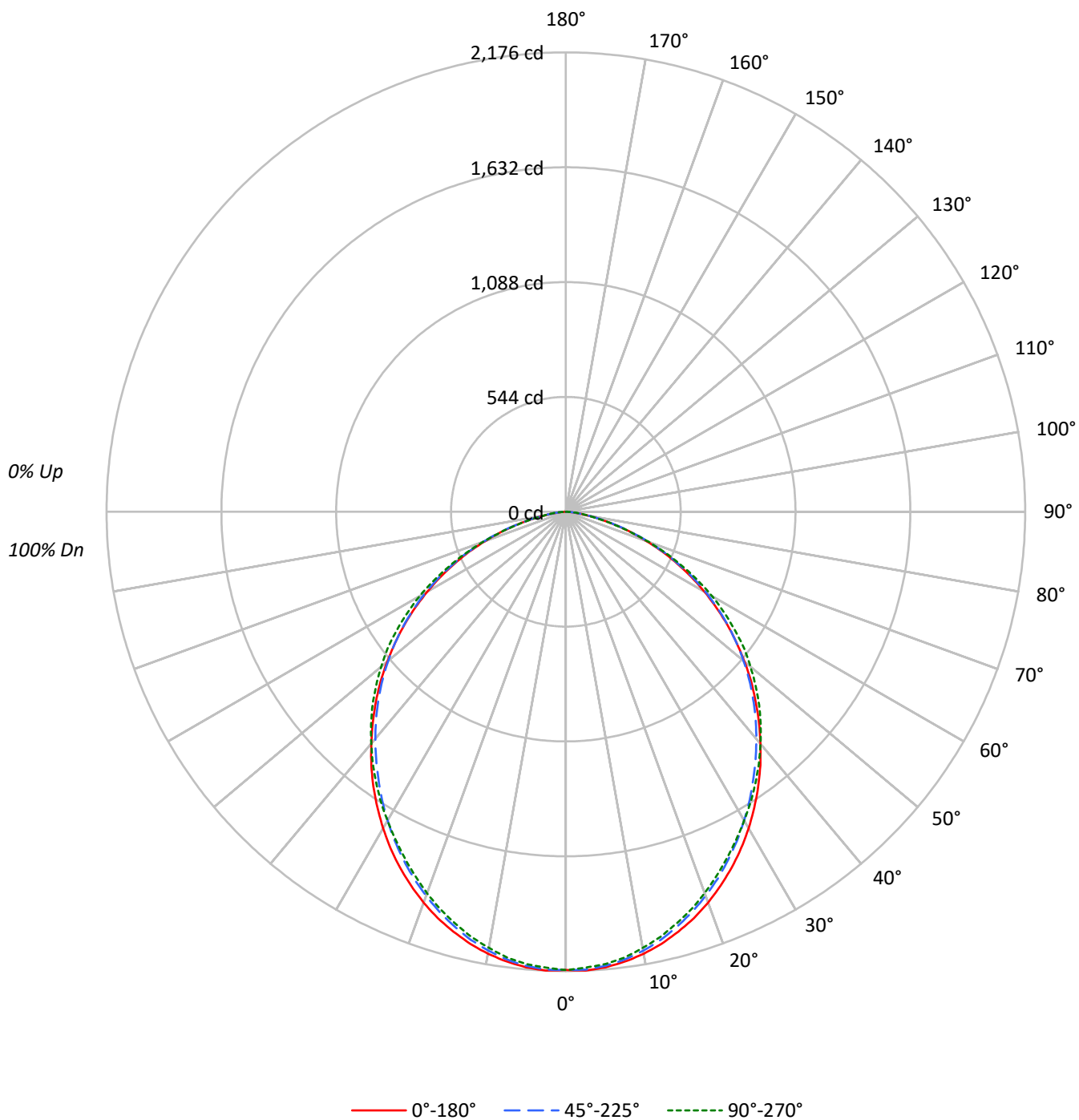
Lumens per Lamp: N/A
Luminaire Lumens: 5314.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.17 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	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°	5842	5842	5842
5°	5850	5833	5810
10°	5809	5769	5733
15°	5736	5668	5628
20°	5642	5544	5506
25°	5522	5403	5369
30°	5380	5248	5249
35°	5220	5085	5145
40°	5037	4932	5039
45°	4840	4774	4927
50°	4626	4601	4780
55°	4380	4394	4585
60°	4084	4133	4311
65°	3708	3777	3871
70°	3198	3273	3279
75°	2541	2608	2509
80°	1712	1743	1672
85°	868	1108	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 4927 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	3.8
10°-20°	573.2	10.8
20°-30°	840.3	15.8
30°-40°	976.9	18.4
40°-50°	977.5	18.4
50°-60°	843.5	15.9
60°-70°	586.4	11.0
70°-80°	265.0	5.0
80°-90°	46.9	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°	1617.8	30.4
0°-40°	2594.7	48.8
0°-60°	4415.7	83.1
0°-90°	5314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5314.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2166	2157	2159	2148	2151	205
15°	2059	2046	2035	2018	2020	580
25°	1860	1842	1820	1804	1808	856
35°	1589	1567	1548	1554	1566	993
45°	1272	1254	1254	1278	1295	981
55°	934	921	937	965	977	834
65°	582	579	593	602	608	576
75°	244	244	251	244	241	263
85°	28	31	36	42	45	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.8	2170.8	2170.8	2170.8	2170.8
2.5°	2175.5	2167.3	2170.8	2162.5	2161.2
5°	2165.8	2157.2	2159.3	2148.3	2150.8
7.5°	2149.1	2139.6	2139.1	2127.0	2129.6
10°	2125.9	2114.6	2111.3	2096.7	2098.2
12.5°	2096.1	2083.8	2077.1	2060.6	2063.3
15°	2059.1	2045.7	2034.7	2018.1	2020.0
17.5°	2018.4	2004.5	1988.0	1970.6	1975.0
20°	1970.1	1955.3	1935.9	1917.8	1922.7
22.5°	1916.7	1900.2	1880.5	1862.8	1866.3
25°	1859.8	1841.9	1819.6	1804.4	1808.4
27.5°	1797.8	1778.0	1756.0	1743.0	1749.1
30°	1731.3	1710.8	1688.9	1681.1	1689.2
32.5°	1661.2	1640.7	1619.9	1619.1	1630.5
35°	1588.9	1566.9	1547.8	1553.7	1566.3
37.5°	1513.6	1492.3	1476.5	1488.8	1502.0
40°	1433.8	1414.4	1403.9	1420.4	1434.5
42.5°	1353.7	1335.3	1330.1	1351.2	1366.4
45°	1271.8	1253.9	1254.5	1278.4	1294.6
47.5°	1190.8	1172.4	1178.1	1204.8	1219.2
50°	1105.0	1089.5	1099.1	1127.1	1141.7
52.5°	1019.0	1004.8	1018.6	1048.1	1065.1
55°	933.5	920.9	936.6	965.4	977.3
57.5°	846.0	837.0	853.9	878.9	890.3
60°	758.8	750.8	768.0	790.6	801.1
62.5°	670.6	664.3	681.5	699.1	704.8
65°	582.4	579.0	593.2	602.2	607.9
67.5°	496.0	492.4	505.5	512.6	513.8
70°	406.4	405.7	416.0	418.3	416.7
72.5°	324.3	322.6	330.3	328.2	324.9
75°	244.4	244.4	250.8	244.0	241.3
77.5°	172.0	175.0	175.6	169.5	167.3
80°	110.5	114.6	112.5	109.9	107.9
82.5°	61.6	64.6	64.6	70.7	73.1
85°	28.1	30.8	35.9	42.2	44.8
87.5°	9.5	11.7	15.0	15.9	15.0
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	17.06	18.64	17.42	18.95	19.27	17.40	18.98	17.77	19.30	19.61
	3H	18.52	19.94	18.89	20.27	20.63	18.82	20.24	19.20	20.57	20.93
	4H	18.94	20.27	19.33	20.62	21.00	19.20	20.54	19.60	20.88	21.26
	6H	19.14	20.37	19.55	20.74	21.13	19.37	20.61	19.78	20.97	21.36
	8H	19.16	20.34	19.59	20.73	21.13	19.40	20.58	19.83	20.97	21.37
	12H	19.16	20.29	19.59	20.67	21.10	19.42	20.54	19.85	20.93	21.35
4H	2H	17.63	18.97	18.03	19.32	19.69	17.91	19.25	18.31	19.60	19.97
	3H	19.26	20.37	19.67	20.77	21.17	19.51	20.62	19.92	21.02	21.42
	4H	19.77	20.77	20.20	21.18	21.62	19.98	20.98	20.41	21.39	21.83
	6H	20.05	20.92	20.50	21.36	21.82	20.22	21.09	20.67	21.53	21.99
	8H	20.09	20.90	20.55	21.34	21.81	20.27	21.08	20.73	21.52	21.99
	12H	20.10	20.82	20.58	21.30	21.77	20.30	21.03	20.78	21.51	21.98
8H	4H	19.95	20.76	20.41	21.20	21.67	20.14	20.95	20.60	21.39	21.86
	6H	20.28	20.95	20.77	21.44	21.92	20.43	21.10	20.92	21.59	22.07
	8H	20.34	20.94	20.86	21.45	21.94	20.51	21.11	21.02	21.61	22.10
	12H	20.38	20.90	20.88	21.40	21.96	20.58	21.10	21.08	21.60	22.16
12H	4H	19.94	20.67	20.43	21.15	21.62	20.13	20.86	20.62	21.34	21.81
	6H	20.27	20.87	20.79	21.38	21.87	20.42	21.02	20.93	21.53	22.02
	8H	20.37	20.90	20.88	21.39	21.96	20.53	21.06	21.04	21.55	22.12