

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: P1498181

Luminaire Tested: MAE-G-2-120-1LO-LO-40-90-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498181
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-2-120-1LO-LO-40-90-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 LO ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

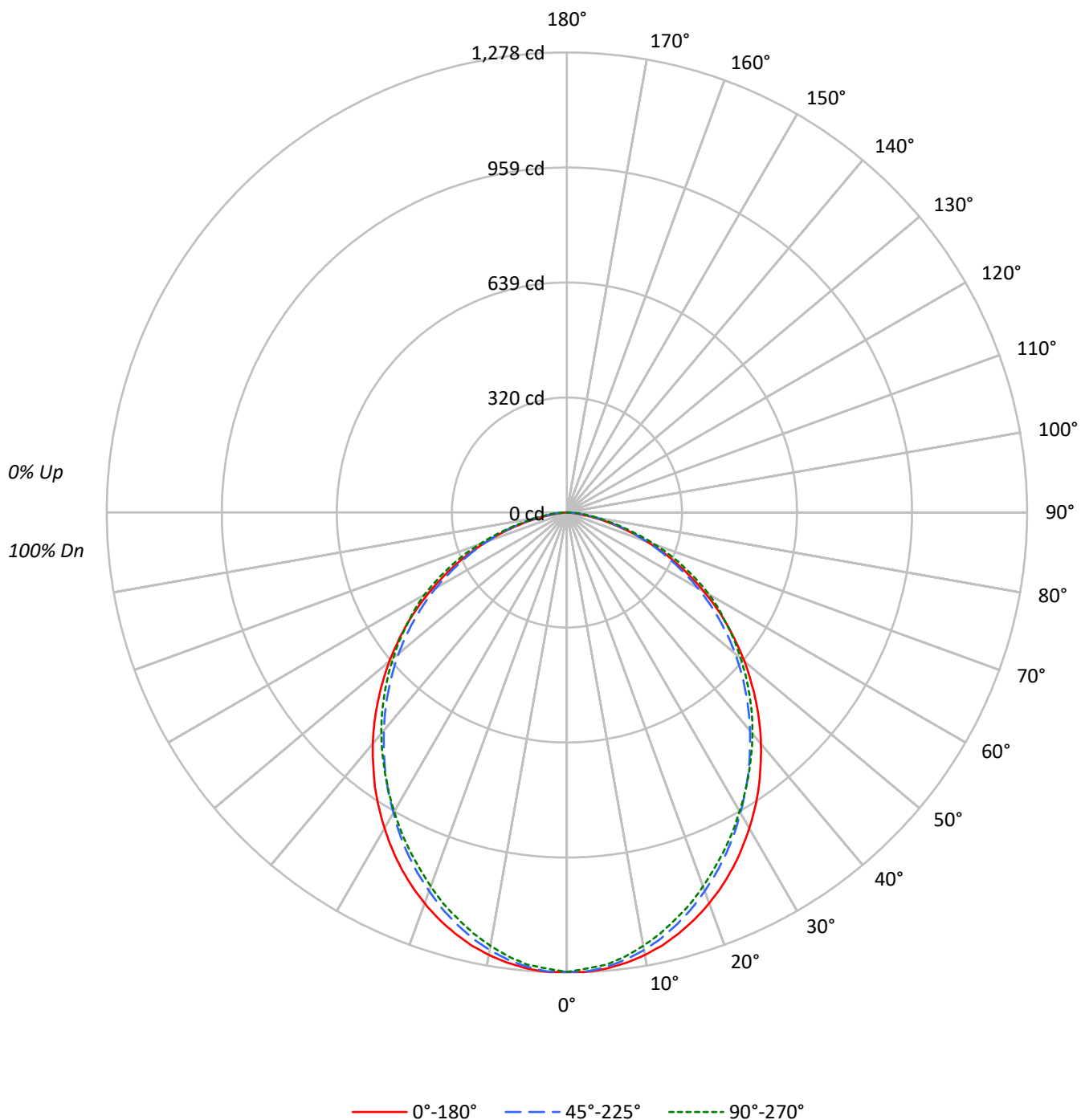
Lumens per Lamp: N/A
Luminaire Lumens: 3052.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 36.7
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	97	107	103	99	96	99	96	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	78		84	79	76		81
3	92	81	74	67	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	39		50	43	38		48
8	62	49	41	35	61	48	40	35	47	40	35		46	39	34		45
9	58	45	37	32	57	44	37	31	43	36	31		42	36	31		41
10	55	42	34	29	53	41	34	29	40	33	29		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3434	3434	3434
5°	3435	3422	3405
10°	3411	3373	3340
15°	3368	3297	3257
20°	3309	3204	3166
25°	3236	3105	3072
30°	3147	2994	2980
35°	3053	2888	2895
40°	2946	2779	2816
45°	2825	2669	2728
50°	2696	2553	2637
55°	2547	2418	2541
60°	2364	2263	2458
65°	2152	2062	2287
70°	1868	1856	2043
75°	1490	1582	1683
80°	1032	1226	1342
85°	577	936	1223

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2825 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.9
10°-20°	333.8	10.9
20°-30°	484.8	15.9
30°-40°	557.8	18.3
40°-50°	551.9	18.1
50°-60°	472.5	15.5
60°-70°	333.4	10.9
70°-80°	162.4	5.3
80°-90°	35.5	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°	938.4	30.7
0°-40°	1496.2	49.0
0°-60°	2520.7	82.6
0°-90°	3052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1276	1276	1276	1276	1276	
5°	1272	1271	1267	1258	1261	121
15°	1209	1202	1184	1167	1169	341
25°	1090	1074	1046	1032	1034	501
35°	930	907	879	876	881	581
45°	742	722	701	709	717	573
55°	543	524	515	530	542	485
65°	338	323	324	348	359	334
75°	143	137	152	162	162	155
85°	19	23	30	37	40	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1276.1	1276.1	1276.1	1276.1	1276.1
2.5°	1277.6	1278.7	1276.1	1266.5	1268.3
5°	1271.7	1270.7	1266.9	1257.8	1260.6
7.5°	1261.6	1259.8	1252.9	1242.2	1244.0
10°	1248.2	1244.7	1234.3	1220.9	1222.4
12.5°	1230.7	1225.9	1211.5	1196.1	1197.8
15°	1208.8	1202.0	1183.5	1167.4	1169.0
17.5°	1183.8	1176.0	1153.5	1136.0	1139.6
20°	1155.4	1144.8	1119.0	1102.4	1105.4
22.5°	1124.2	1110.9	1083.8	1067.6	1070.0
25°	1089.7	1073.6	1045.7	1031.8	1034.5
27.5°	1052.5	1034.8	1006.1	993.3	997.7
30°	1012.9	993.8	963.4	954.5	959.1
32.5°	972.2	951.9	921.9	915.9	920.7
35°	929.5	907.2	879.2	875.5	881.4
37.5°	883.7	862.4	834.7	836.2	841.8
40°	838.5	816.4	791.0	794.9	801.7
42.5°	791.4	769.9	746.7	752.6	760.5
45°	742.2	721.8	701.4	709.4	716.9
47.5°	692.9	672.7	656.0	665.6	674.5
50°	644.0	624.6	609.9	621.6	630.0
52.5°	592.6	574.2	563.4	575.8	586.7
55°	542.9	524.1	515.4	530.2	541.7
57.5°	491.5	476.0	468.4	486.0	500.5
60°	439.3	424.0	420.4	442.9	456.7
62.5°	388.2	373.2	371.5	397.9	407.8
65°	337.9	323.2	323.9	348.5	359.2
67.5°	288.1	274.6	280.4	304.1	311.3
70°	237.4	225.3	235.9	255.9	259.6
72.5°	189.7	179.5	194.0	208.2	209.2
75°	143.3	137.1	152.2	161.7	161.9
77.5°	102.7	99.4	113.3	119.9	120.4
80°	66.6	68.1	79.1	84.3	86.6
82.5°	38.8	42.3	50.9	59.5	61.8
85°	18.7	22.9	30.3	36.8	39.6
87.5°	6.4	9.2	12.6	14.0	13.6
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	15.09	16.67	15.45	16.98	17.30	15.24	16.82	15.60	17.14	17.45
	3H	16.54	17.96	16.91	18.29	18.65	16.89	18.31	17.27	18.64	19.00
	4H	16.97	18.30	17.37	18.65	19.03	17.39	18.73	17.79	19.08	19.46
	6H	17.19	18.42	17.60	18.79	19.18	17.70	18.93	18.11	19.30	19.69
	8H	17.22	18.40	17.65	18.79	19.19	17.79	18.97	18.21	19.35	19.75
	12H	17.23	18.36	17.66	18.74	19.17	17.85	18.98	18.28	19.36	19.79
4H	2H	15.60	16.94	16.00	17.29	17.66	15.72	17.06	16.12	17.41	17.79
	3H	17.24	18.35	17.65	18.75	19.15	17.58	18.69	17.99	19.09	19.49
	4H	17.75	18.75	18.18	19.17	19.61	18.20	19.20	18.63	19.62	20.06
	6H	18.05	18.93	18.51	19.37	19.83	18.60	19.48	19.06	19.92	20.38
	8H	18.11	18.93	18.57	19.37	19.83	18.73	19.55	19.19	19.99	20.45
	12H	18.13	18.86	18.61	19.34	19.81	18.83	19.56	19.31	20.04	20.51
8H	4H	17.98	18.79	18.44	19.24	19.70	18.38	19.20	18.84	19.64	20.11
	6H	18.35	19.02	18.84	19.51	19.99	18.87	19.54	19.36	20.03	20.51
	8H	18.43	19.04	18.95	19.55	20.03	19.05	19.65	19.56	20.16	20.65
	12H	18.49	19.02	19.00	19.51	20.08	19.21	19.74	19.72	20.23	20.80
12H	4H	17.99	18.72	18.47	19.20	19.67	18.38	19.11	18.86	19.59	20.06
	6H	18.37	18.97	18.88	19.48	19.97	18.87	19.48	19.38	19.99	20.47
	8H	18.50	19.03	19.00	19.52	20.08	19.10	19.63	19.61	20.12	20.69

END OF REPORT

FIELD PERFORMANCE MAY DIFFER FROM LABORATORY PERFORMANCE

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