

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: P1498082

Luminaire Tested: MAE-G-2-120-1HI-LO-35-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498082
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-2-120-1HI-LO-35-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

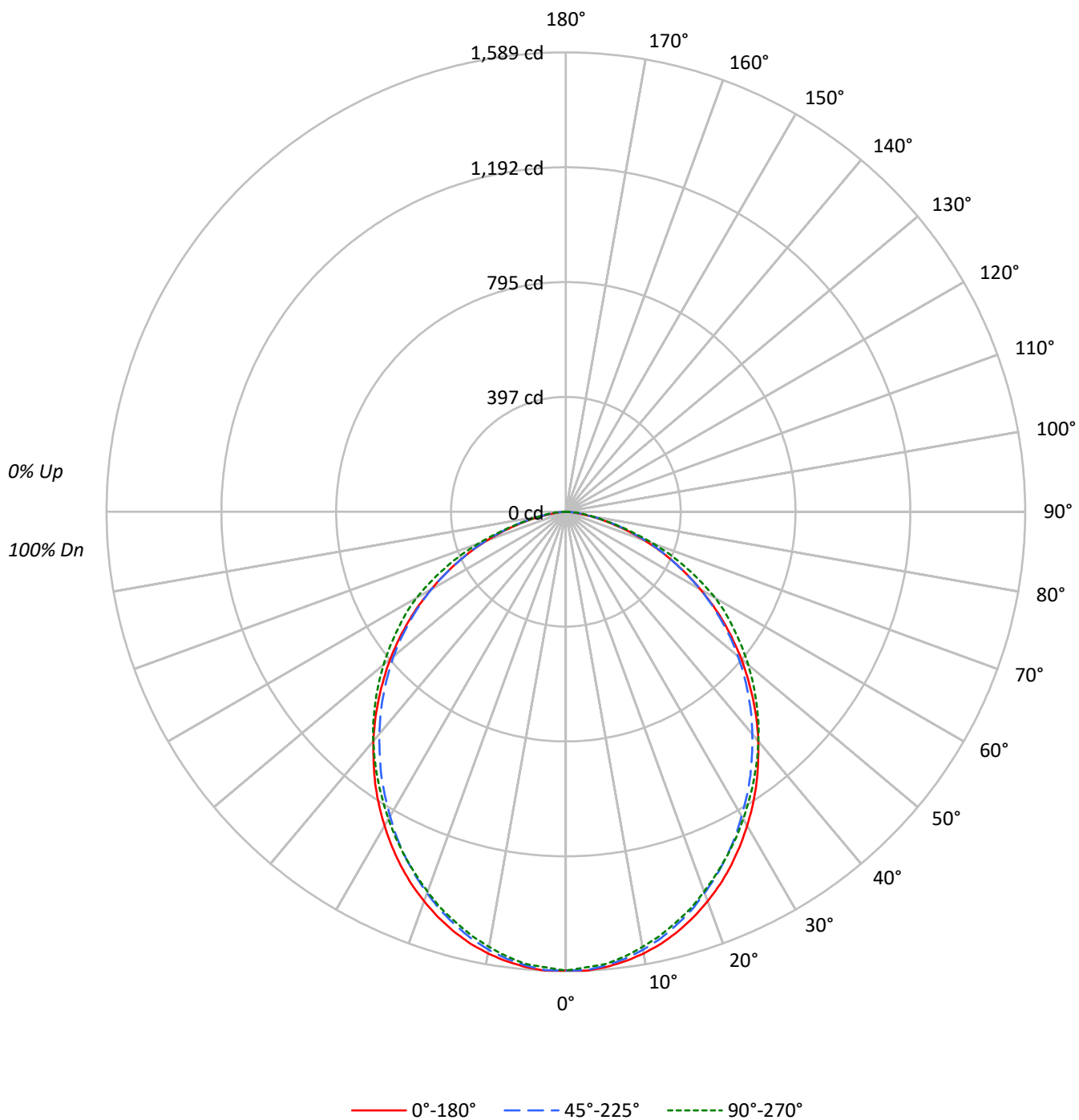
Lumens per Lamp: N/A
Luminaire Lumens: 3838.0 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 47.1
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	87	85		
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	76	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	41		
7	67	53	45	39	65	53	45	39	51	44	39	50	43	38	48	42	38	36		
8	62	49	41	35	61	48	40	35	47	40	35	46	39	34	45	39	34	32		
9	58	45	37	32	57	44	37	31	43	36	31	42	36	31	41	35	31	29		
10	55	42	34	29	53	41	34	29	40	33	28	39	33	28	38	32	28	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4271	4271	4271
5°	4271	4257	4242
10°	4239	4203	4177
15°	4184	4121	4097
20°	4106	4019	4005
25°	4011	3907	3909
30°	3897	3778	3813
35°	3777	3656	3724
40°	3638	3525	3641
45°	3483	3395	3546
50°	3319	3254	3446
55°	3130	3085	3331
60°	2895	2890	3216
65°	2627	2622	2935
70°	2271	2325	2531
75°	1804	1918	1946
80°	1237	1396	1418
85°	685	1007	1257

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.9
10°-20°	417.5	10.9
20°-30°	609.4	15.9
30°-40°	704.5	18.4
40°-50°	700.2	18.2
50°-60°	601.4	15.7
60°-70°	420.9	11.0
70°-80°	195.8	5.1
80°-90°	39.2	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°	1176.0	30.6
0°-40°	1880.5	49.0
0°-60°	3182.1	82.9
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1587	1587	1587	1587	1587	
5°	1581	1580	1576	1567	1570	150
15°	1502	1496	1479	1467	1470	423
25°	1351	1337	1316	1309	1316	622
35°	1150	1131	1113	1121	1134	718
45°	915	900	892	916	932	706
55°	667	653	658	690	710	596
65°	412	402	412	446	461	408
75°	174	169	184	190	187	187
85°	22	26	33	39	41	32
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.0	1587.0	1587.0	1587.0	1587.0
2.5°	1589.0	1590.0	1587.0	1576.2	1577.4
5°	1581.3	1579.8	1576.0	1567.1	1570.4
7.5°	1568.4	1566.7	1559.9	1549.9	1552.2
10°	1551.4	1547.9	1538.3	1526.1	1528.6
12.5°	1529.4	1525.2	1512.0	1499.0	1502.0
15°	1501.8	1495.5	1479.4	1467.0	1470.5
17.5°	1469.9	1463.7	1444.6	1431.4	1437.8
20°	1433.8	1425.0	1403.6	1392.1	1398.4
22.5°	1394.5	1382.9	1361.2	1351.3	1357.4
25°	1351.0	1336.7	1315.7	1309.4	1316.5
27.5°	1304.0	1288.5	1268.2	1263.5	1273.0
30°	1254.0	1237.7	1215.7	1216.7	1227.1
32.5°	1203.0	1186.0	1164.9	1170.2	1180.7
35°	1149.6	1130.7	1113.0	1120.9	1133.5
37.5°	1092.1	1074.6	1057.6	1073.2	1085.4
40°	1035.6	1017.3	1003.6	1022.6	1036.4
42.5°	976.8	959.8	948.7	969.9	985.9
45°	915.2	900.0	892.2	916.1	931.7
47.5°	853.8	838.5	835.1	860.9	878.4
50°	792.8	778.6	777.3	805.8	823.2
52.5°	729.4	715.6	718.7	747.8	768.2
55°	667.1	653.0	657.6	689.6	710.1
57.5°	603.1	593.3	598.0	632.2	656.6
60°	538.0	527.9	537.0	575.8	597.6
62.5°	474.8	464.6	473.4	515.3	528.9
65°	412.5	401.9	411.8	446.0	461.0
67.5°	351.6	341.2	355.2	385.1	394.2
70°	288.7	279.9	295.5	319.0	321.7
72.5°	230.4	222.4	240.0	253.4	252.0
75°	173.5	169.2	184.5	190.4	187.2
77.5°	123.8	121.6	133.8	135.4	132.5
80°	79.8	81.7	90.1	90.3	91.5
82.5°	46.3	49.7	55.8	63.1	64.4
85°	22.2	26.2	32.6	38.6	40.7
87.5°	7.8	10.5	13.4	14.8	14.4
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	15.80	17.38	16.17	17.70	18.01	16.28	17.86	16.65	18.18	18.49
	3H	17.23	18.65	17.61	18.98	19.34	17.84	19.26	18.21	19.59	19.95
	4H	17.64	18.98	18.04	19.33	19.71	18.26	19.60	18.66	19.94	20.32
	6H	17.85	19.09	18.26	19.45	19.84	18.47	19.71	18.88	20.07	20.46
	8H	17.88	19.06	18.31	19.45	19.85	18.52	19.70	18.95	20.09	20.49
	12H	17.89	19.01	18.31	19.39	19.82	18.56	19.69	18.99	20.07	20.50
4H	2H	16.35	17.68	16.75	18.03	18.41	16.74	18.08	17.14	18.42	18.80
	3H	17.95	19.07	18.36	19.46	19.86	18.49	19.60	18.90	20.00	20.40
	4H	18.45	19.45	18.88	19.87	20.30	19.02	20.02	19.45	20.43	20.87
	6H	18.74	19.61	19.19	20.05	20.51	19.31	20.18	19.77	20.63	21.08
	8H	18.79	19.60	19.25	20.04	20.51	19.39	20.21	19.85	20.65	21.12
	12H	18.80	19.53	19.29	20.01	20.48	19.46	20.18	19.94	20.66	21.13
8H	4H	18.66	19.48	19.12	19.92	20.39	19.17	19.99	19.64	20.43	20.90
	6H	19.01	19.68	19.50	20.17	20.65	19.54	20.21	20.03	20.70	21.17
	8H	19.09	19.69	19.60	20.20	20.68	19.66	20.26	20.17	20.77	21.25
	12H	19.13	19.66	19.64	20.15	20.72	19.77	20.30	20.27	20.79	21.35
12H	4H	18.67	19.39	19.15	19.87	20.34	19.17	19.90	19.65	20.38	20.85
	6H	19.02	19.62	19.53	20.13	20.61	19.53	20.14	20.04	20.64	21.13
	8H	19.13	19.66	19.64	20.15	20.72	19.69	20.22	20.20	20.72	21.28