

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: P1498064

Luminaire Tested: MAE-G-2-120-1HI-HI-40-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498064
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-HI-40-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 1 HI ambient , HI exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

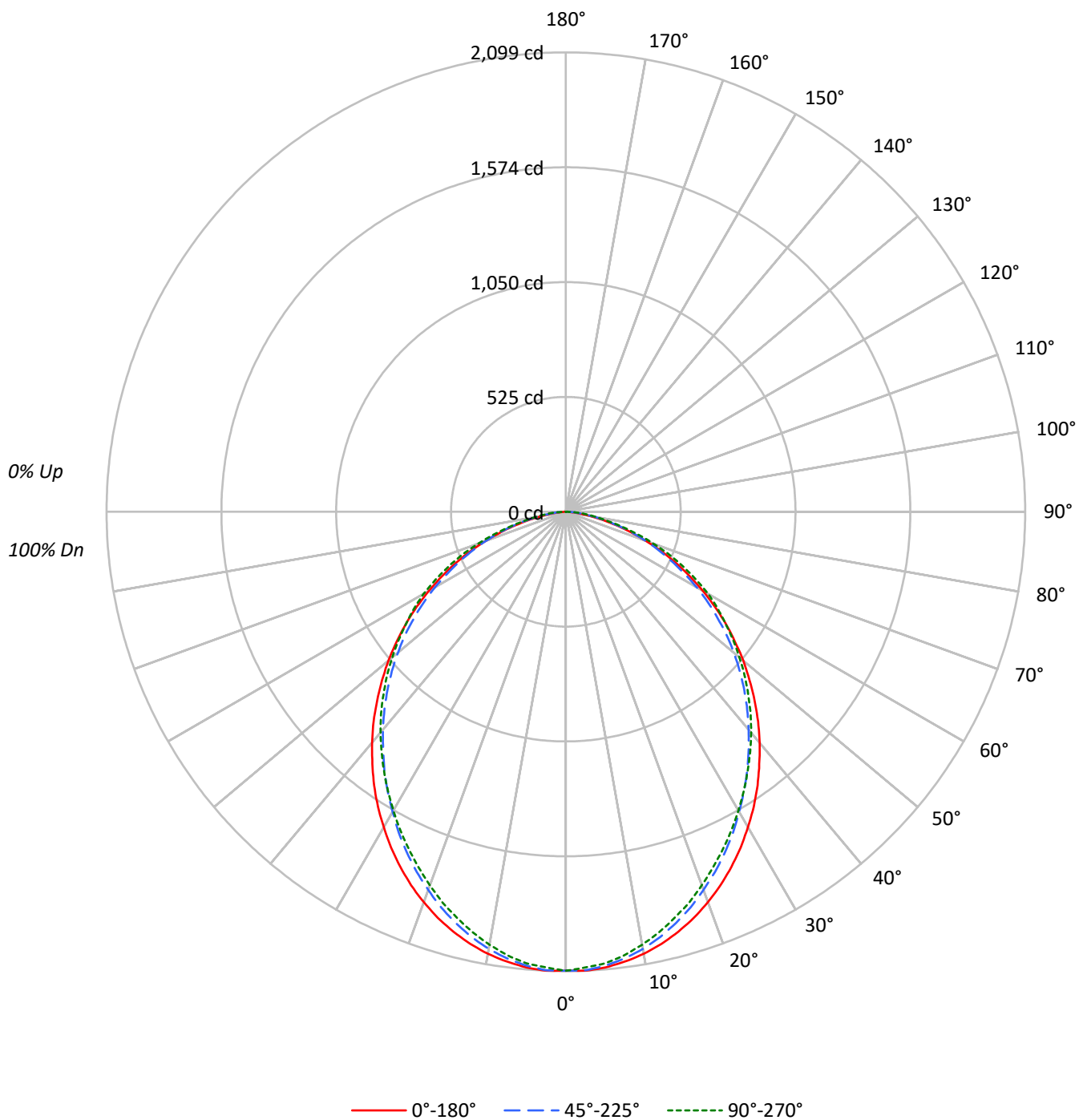
Lumens per Lamp: N/A
Luminaire Lumens: 5015.0 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.13 / 1.26
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 67.8
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°	5643	5643	5643
5°	5645	5623	5595
10°	5604	5542	5488
15°	5534	5418	5351
20°	5437	5265	5201
25°	5316	5102	5048
30°	5172	4919	4897
35°	5017	4746	4758
40°	4840	4565	4628
45°	4642	4386	4483
50°	4430	4196	4334
55°	4185	3973	4177
60°	3885	3718	4039
65°	3536	3389	3759
70°	3068	3049	3356
75°	2450	2599	2766
80°	1695	2015	2204
85°	948	1541	2010

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	3.9
10°-20°	548.6	10.9
20°-30°	796.6	15.9
30°-40°	916.6	18.3
40°-50°	907.0	18.1
50°-60°	776.4	15.5
60°-70°	547.9	10.9
70°-80°	266.8	5.3
80°-90°	58.4	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°	1542.0	30.7
0°-40°	2458.6	49.0
0°-60°	4142.0	82.6
0°-90°	5015.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2090	2088	2082	2067	2071	198
15°	1986	1975	1945	1918	1921	560
25°	1790	1764	1718	1696	1700	824
35°	1527	1491	1445	1439	1448	954
45°	1220	1186	1152	1166	1178	941
55°	892	861	847	871	890	796
65°	555	531	532	573	590	549
75°	236	225	250	266	266	254
85°	31	38	50	61	65	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2096.9	2096.9	2096.9	2096.9	2096.9
2.5°	2099.3	2101.1	2096.9	2081.1	2084.0
5°	2089.7	2088.0	2081.7	2066.8	2071.4
7.5°	2073.0	2070.1	2058.8	2041.1	2044.2
10°	2050.9	2045.1	2028.2	2006.1	2008.6
12.5°	2022.3	2014.4	1990.5	1965.5	1968.1
15°	1986.4	1975.2	1944.7	1918.3	1920.9
17.5°	1945.1	1932.3	1895.5	1866.7	1872.5
20°	1898.5	1881.1	1838.7	1811.4	1816.3
22.5°	1847.1	1825.3	1780.8	1754.3	1758.1
25°	1790.5	1764.0	1718.3	1695.5	1700.0
27.5°	1729.5	1700.4	1653.2	1632.2	1639.4
30°	1664.4	1633.0	1583.1	1568.4	1576.1
32.5°	1597.6	1564.1	1514.8	1505.1	1512.8
35°	1527.3	1490.8	1444.8	1438.6	1448.4
37.5°	1452.1	1417.1	1371.5	1374.0	1383.2
40°	1377.7	1341.3	1299.6	1306.3	1317.4
42.5°	1300.3	1265.2	1227.0	1236.7	1249.6
45°	1219.7	1186.1	1152.5	1165.8	1178.1
47.5°	1138.6	1105.5	1078.0	1093.7	1108.3
50°	1058.2	1026.4	1002.2	1021.4	1035.2
52.5°	973.9	943.5	925.9	946.2	964.1
55°	892.1	861.2	846.9	871.2	890.3
57.5°	807.6	782.1	769.8	798.6	822.4
60°	721.8	696.7	690.9	727.6	750.4
62.5°	637.9	613.3	610.4	653.7	670.1
65°	555.3	531.1	532.2	572.6	590.3
67.5°	473.4	451.2	460.7	499.7	511.5
70°	390.0	370.2	387.5	420.5	426.6
72.5°	311.7	295.1	318.7	342.2	343.7
75°	235.6	225.3	250.0	265.6	266.0
77.5°	168.6	163.3	186.2	197.0	197.9
80°	109.4	111.8	130.0	138.5	142.2
82.5°	63.8	69.5	83.7	97.8	101.5
85°	30.7	37.5	49.9	60.6	65.1
87.5°	10.6	15.2	20.8	23.1	22.4
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	16.81	18.39	17.18	18.71	19.02	16.96	18.55	17.33	18.86	19.18
	3H	18.26	19.69	18.64	20.01	20.37	18.61	20.04	18.99	20.37	20.73
	4H	18.69	20.03	19.09	20.38	20.76	19.12	20.46	19.52	20.81	21.18
	6H	18.91	20.15	19.32	20.52	20.91	19.42	20.66	19.83	21.02	21.42
	8H	18.95	20.13	19.37	20.52	20.92	19.51	20.69	19.94	21.08	21.48
	12H	18.95	20.08	19.38	20.46	20.89	19.57	20.70	20.00	21.09	21.51
4H	2H	17.33	18.66	17.72	19.01	19.39	17.45	18.79	17.85	19.14	19.51
	3H	18.96	20.08	19.37	20.48	20.88	19.30	20.42	19.71	20.82	21.22
	4H	19.48	20.48	19.91	20.89	21.33	19.92	20.93	20.36	21.34	21.78
	6H	19.78	20.65	20.23	21.09	21.55	20.33	21.20	20.78	21.64	22.10
	8H	19.83	20.65	20.29	21.09	21.56	20.45	21.27	20.92	21.71	22.18
	12H	19.86	20.59	20.34	21.06	21.53	20.55	21.28	21.03	21.76	22.23
8H	4H	19.70	20.52	20.16	20.96	21.43	20.11	20.92	20.57	21.37	21.83
	6H	20.07	20.75	20.57	21.24	21.71	20.59	21.27	21.09	21.76	22.23
	8H	20.16	20.76	20.67	21.27	21.76	20.77	21.38	21.28	21.89	22.37
	12H	20.21	20.75	20.72	21.24	21.80	20.93	21.47	21.44	21.96	22.52
12H	4H	19.71	20.45	20.19	20.92	21.39	20.11	20.84	20.59	21.31	21.78
	6H	20.09	20.70	20.60	21.21	21.69	20.60	21.20	21.11	21.71	22.20
	8H	20.22	20.76	20.73	21.25	21.81	20.82	21.36	21.33	21.85	22.41