

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: P1498364

Luminaire Tested: MAE-G-2-120-2HI-LO-30-WDDCPH

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498364
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-2-120-2HI-LO-30-WDDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, WDDCPH frame, 2 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

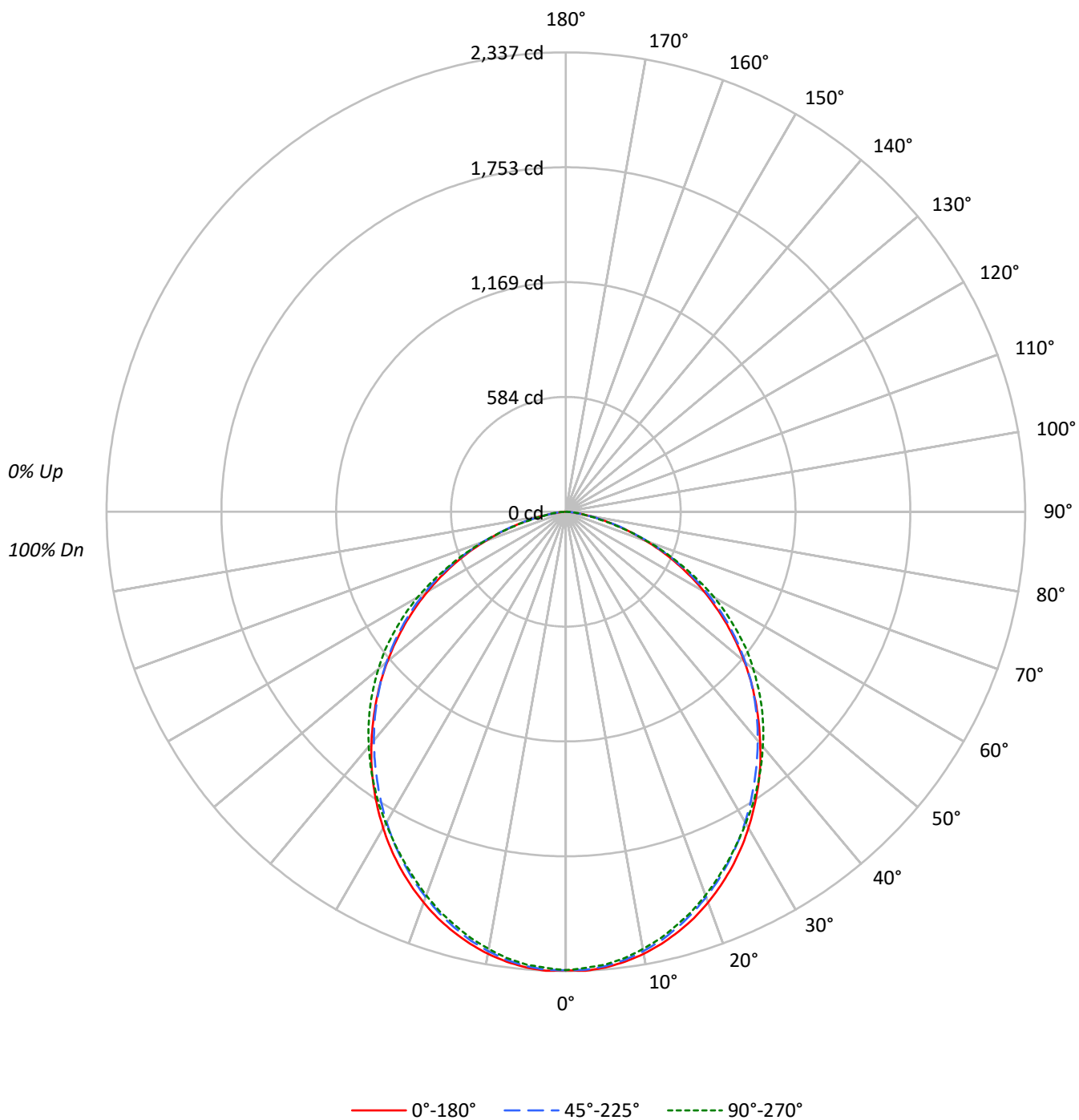
Lumens per Lamp: N/A
Luminaire Lumens: 5732.0 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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	98	107	103	99	96	99	96	93		95	93	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	76	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	34		46	39	34		44
9	58	45	37	31	57	44	37	31	43	36	31		42	36	31		41
10	54	41	34	29	53	41	34	29	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6276	6276	6276
5°	6285	6267	6245
10°	6240	6203	6171
15°	6162	6101	6068
20°	6059	5974	5947
25°	5930	5828	5809
30°	5775	5667	5688
35°	5602	5497	5585
40°	5404	5337	5478
45°	5192	5171	5364
50°	4961	4989	5212
55°	4696	4767	5002
60°	4377	4486	4695
65°	3971	4097	4188
70°	3419	3530	3505
75°	2714	2778	2620
80°	1821	1805	1667
85°	911	1105	1346

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 5364 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.6	3.8
10°-20°	617.0	10.8
20°-30°	906.0	15.8
30°-40°	1055.2	18.4
40°-50°	1057.6	18.5
50°-60°	913.6	15.9
60°-70°	633.4	11.1
70°-80°	281.8	4.9
80°-90°	47.8	0.8
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°	1742.5	30.4
0°-40°	2797.7	48.8
0°-60°	4768.9	83.2
0°-90°	5732.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2332	2332	2332	2332	2332	
5°	2327	2317	2320	2310	2312	221
15°	2212	2198	2190	2176	2178	623
25°	1997	1980	1963	1951	1956	919
35°	1705	1686	1673	1685	1700	1066
45°	1364	1350	1359	1390	1410	1053
55°	1001	992	1016	1052	1066	894
65°	624	624	643	652	658	617
75°	261	263	267	256	252	281
85°	30	32	36	42	44	44
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2332.2	2332.2	2332.2	2332.2	2332.2
2.5°	2337.3	2327.7	2332.2	2324.2	2322.0
5°	2326.8	2317.1	2320.2	2309.6	2312.0
7.5°	2308.9	2298.4	2299.1	2287.8	2290.6
10°	2283.7	2271.6	2270.1	2256.6	2258.3
12.5°	2251.7	2238.8	2234.4	2219.5	2222.7
15°	2211.7	2198.0	2190.1	2175.5	2178.0
17.5°	2168.0	2154.1	2140.9	2126.1	2131.3
20°	2115.8	2101.5	2086.2	2070.5	2076.7
22.5°	2058.3	2042.6	2027.4	2012.6	2017.3
25°	1997.1	1980.5	1962.8	1950.8	1956.4
27.5°	1930.3	1911.9	1895.4	1885.9	1893.7
30°	1858.6	1840.0	1823.9	1820.1	1830.4
32.5°	1783.2	1764.8	1750.1	1754.2	1768.3
35°	1705.4	1685.9	1673.2	1684.6	1700.0
37.5°	1624.6	1605.7	1597.0	1615.3	1631.6
40°	1538.4	1522.1	1519.2	1542.4	1559.5
42.5°	1452.3	1437.2	1440.0	1468.1	1486.7
45°	1364.4	1349.8	1358.8	1390.0	1409.6
47.5°	1277.5	1262.2	1276.7	1310.6	1328.3
50°	1185.0	1173.0	1191.6	1226.9	1245.0
52.5°	1092.9	1082.0	1104.7	1141.7	1162.0
55°	1000.9	991.9	1016.0	1051.9	1066.2
57.5°	906.8	901.6	926.6	957.3	970.8
60°	813.2	808.9	833.6	860.5	872.4
62.5°	718.5	715.9	739.6	759.4	765.3
65°	623.6	624.2	643.4	651.8	657.7
67.5°	531.1	530.8	547.3	552.7	553.3
70°	434.5	437.3	448.7	448.5	445.5
72.5°	346.6	347.6	354.4	348.8	344.1
75°	261.0	262.9	267.2	256.2	252.0
77.5°	183.3	187.7	185.0	175.1	171.2
80°	117.5	122.0	116.5	110.7	107.6
82.5°	65.3	67.9	65.2	70.1	72.1
85°	29.5	31.7	35.8	41.5	43.6
87.5°	10.1	12.0	14.8	15.6	14.6
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	17.31	18.89	17.67	19.20	19.52	17.73	19.32	18.10	19.63	19.94
	3H	18.76	20.18	19.14	20.51	20.87	19.12	20.54	19.50	20.87	21.23
	4H	19.17	20.51	19.57	20.86	21.24	19.47	20.81	19.87	21.16	21.54
	6H	19.37	20.61	19.78	20.97	21.36	19.62	20.85	20.03	21.22	21.61
	8H	19.40	20.57	19.82	20.96	21.36	19.64	20.82	20.07	21.21	21.61
	12H	19.39	20.52	19.82	20.90	21.33	19.65	20.78	20.08	21.16	21.59
4H	2H	17.89	19.23	18.29	19.58	19.95	18.24	19.57	18.64	19.92	20.30
	3H	19.52	20.63	19.93	21.02	21.42	19.80	20.91	20.21	21.31	21.71
	4H	20.02	21.01	20.45	21.43	21.87	20.24	21.24	20.67	21.65	22.09
	6H	20.29	21.16	20.75	21.60	22.06	20.45	21.32	20.91	21.76	22.22
	8H	20.33	21.14	20.79	21.58	22.05	20.49	21.30	20.95	21.74	22.21
	12H	20.34	21.06	20.82	21.54	22.01	20.51	21.24	20.99	21.71	22.18
8H	4H	20.19	21.00	20.65	21.44	21.91	20.39	21.20	20.86	21.65	22.11
	6H	20.51	21.18	21.01	21.67	22.15	20.65	21.32	21.14	21.81	22.28
	8H	20.57	21.17	21.09	21.68	22.17	20.71	21.31	21.22	21.82	22.30
	12H	20.60	21.13	21.11	21.62	22.19	20.76	21.29	21.27	21.78	22.35
12H	4H	20.18	20.91	20.67	21.39	21.86	20.39	21.11	20.87	21.59	22.06
	6H	20.50	21.10	21.02	21.61	22.10	20.64	21.24	21.15	21.75	22.23
	8H	20.60	21.13	21.11	21.62	22.18	20.73	21.26	21.24	21.75	22.31