

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: P1498081

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

Issue Date: 6/26/2026

Test Information

Test Method: LM-79-2019
Report Number: P1498081
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-VRDCPH
Description: Patient Room Recessed Ceiling Ambient, Exam LED luminaire with, VRDCPH frame, 1 HI ambient , LO exam illumination levels
Light Source: -
Ballast/Driver: -

Summary

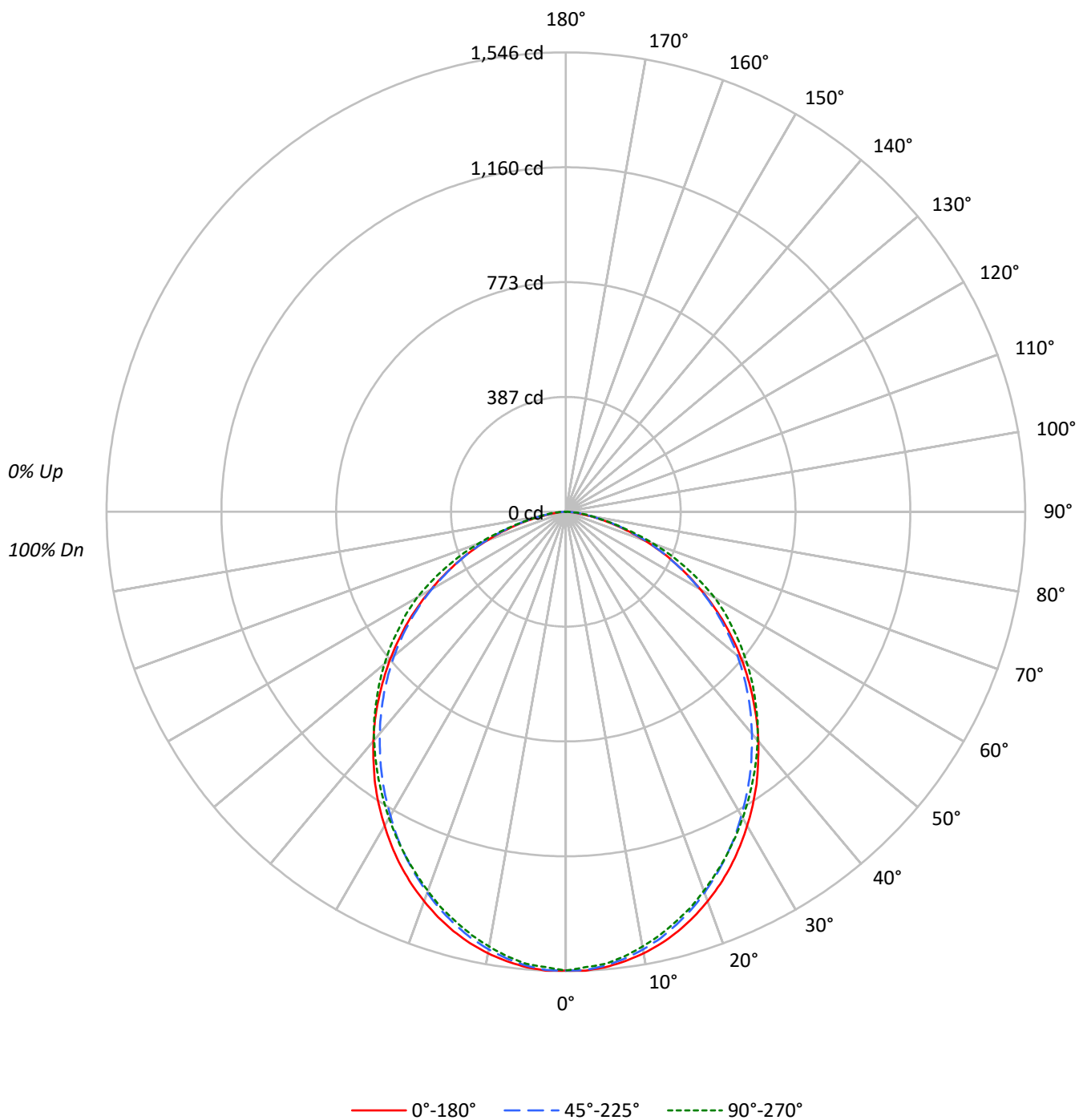
Lumens per Lamp: N/A
Luminaire Lumens: 3729.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.16 / 1.27
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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
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	80	98	90	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	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	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4154	4154	4154
5°	4155	4141	4126
10°	4124	4088	4060
15°	4070	4007	3980
20°	3995	3906	3889
25°	3903	3795	3793
30°	3792	3669	3698
35°	3675	3550	3610
40°	3541	3422	3528
45°	3391	3295	3433
50°	3232	3157	3335
55°	3048	2993	3223
60°	2821	2803	3112
65°	2560	2545	2846
70°	2215	2260	2463
75°	1759	1870	1908
80°	1207	1371	1406
85°	670	997	1247

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 3433 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	3.9
10°-20°	405.8	10.9
20°-30°	592.1	15.9
30°-40°	684.2	18.3
40°-50°	679.7	18.2
50°-60°	583.6	15.7
60°-70°	408.8	11.0
70°-80°	191.1	5.1
80°-90°	38.6	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°	1143.0	30.7
0°-40°	1827.2	49.0
0°-60°	3090.5	82.9
0°-90°	3729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3729.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1544	1544	1544	1544	1544	
5°	1538	1537	1533	1524	1527	146
15°	1461	1455	1438	1425	1429	412
25°	1315	1300	1278	1271	1278	605
35°	1119	1100	1081	1087	1099	699
45°	891	875	866	888	902	687
55°	650	635	638	668	687	580
65°	402	391	400	433	447	398
75°	169	165	180	186	184	183
85°	22	26	32	38	40	31
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.8	1543.8	1543.8	1543.8	1543.8
2.5°	1545.6	1546.6	1543.8	1533.1	1534.3
5°	1538.2	1536.7	1532.9	1524.0	1527.3
7.5°	1525.7	1524.0	1517.2	1507.1	1509.3
10°	1509.1	1505.6	1496.0	1483.7	1486.0
12.5°	1487.8	1483.6	1470.2	1456.9	1459.7
15°	1461.0	1454.7	1438.3	1425.4	1428.7
17.5°	1430.0	1423.7	1404.2	1390.4	1396.5
20°	1395.0	1386.0	1364.1	1351.9	1357.9
22.5°	1356.8	1345.1	1322.7	1312.1	1317.7
25°	1314.6	1300.0	1278.2	1271.0	1277.6
27.5°	1268.9	1253.2	1231.9	1226.2	1235.0
30°	1220.4	1203.7	1180.8	1180.5	1190.1
32.5°	1170.8	1153.4	1131.3	1135.1	1144.8
35°	1118.8	1099.6	1080.6	1087.1	1098.8
37.5°	1063.0	1045.1	1026.8	1040.5	1051.9
40°	1008.0	989.4	974.2	991.3	1004.2
42.5°	950.9	933.3	920.8	940.0	955.0
45°	891.0	875.3	865.9	887.7	902.2
47.5°	831.3	815.4	810.4	834.1	850.5
50°	772.0	757.2	754.2	780.5	796.7
52.5°	710.3	696.0	697.3	724.2	743.3
55°	649.7	635.1	638.0	667.7	687.0
57.5°	587.5	577.0	580.1	612.1	635.2
60°	524.1	513.4	520.9	557.6	578.3
62.5°	462.7	451.9	459.3	499.2	512.3
65°	402.0	390.9	399.7	432.6	447.0
67.5°	342.7	331.9	344.8	373.9	382.7
70°	281.5	272.3	287.2	310.2	313.1
72.5°	224.7	216.5	233.6	247.0	245.9
75°	169.2	164.7	179.9	186.3	183.5
77.5°	120.8	118.4	130.9	133.1	130.6
80°	77.9	79.8	88.5	89.3	90.7
82.5°	45.2	48.6	55.0	62.5	63.9
85°	21.7	25.7	32.3	38.3	40.4
87.5°	7.6	10.3	13.3	14.7	14.3
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	15.71	17.29	16.08	17.61	17.92	16.16	17.74	16.52	18.05	18.37
	3H	17.14	18.56	17.52	18.89	19.25	17.72	19.14	18.10	19.47	19.83
	4H	17.56	18.89	17.96	19.24	19.62	18.15	19.49	18.55	19.84	20.21
	6H	17.77	19.00	18.18	19.37	19.76	18.37	19.61	18.78	19.97	20.36
	8H	17.80	18.97	18.22	19.36	19.76	18.43	19.61	18.85	20.00	20.40
	12H	17.80	18.93	18.23	19.31	19.74	18.47	19.59	18.90	19.97	20.40
4H	2H	16.25	17.59	16.65	17.94	18.31	16.62	17.95	17.02	18.30	18.68
	3H	17.86	18.97	18.27	19.37	19.77	18.38	19.49	18.79	19.89	20.29
	4H	18.36	19.36	18.79	19.78	20.21	18.91	19.91	19.35	20.33	20.77
	6H	18.65	19.52	19.10	19.96	20.42	19.22	20.09	19.68	20.53	20.99
	8H	18.70	19.51	19.16	19.95	20.42	19.30	20.12	19.77	20.56	21.03
	12H	18.72	19.45	19.20	19.92	20.39	19.37	20.10	19.85	20.58	21.05
8H	4H	18.57	19.39	19.04	19.83	20.30	19.07	19.89	19.54	20.33	20.80
	6H	18.92	19.59	19.42	20.08	20.56	19.45	20.12	19.94	20.61	21.09
	8H	19.00	19.60	19.51	20.11	20.60	19.57	20.18	20.09	20.68	21.17
	12H	19.05	19.58	19.56	20.07	20.63	19.69	20.22	20.20	20.71	21.27
12H	4H	18.58	19.31	19.06	19.78	20.25	19.07	19.80	19.55	20.28	20.75
	6H	18.93	19.53	19.44	20.04	20.53	19.45	20.05	19.96	20.56	21.04
	8H	19.05	19.58	19.56	20.07	20.63	19.61	20.14	20.12	20.64	21.20