

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: IRiS

Report Number: P1307380

Luminaire Tested: P3SQAS24R459027D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS24R459027D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

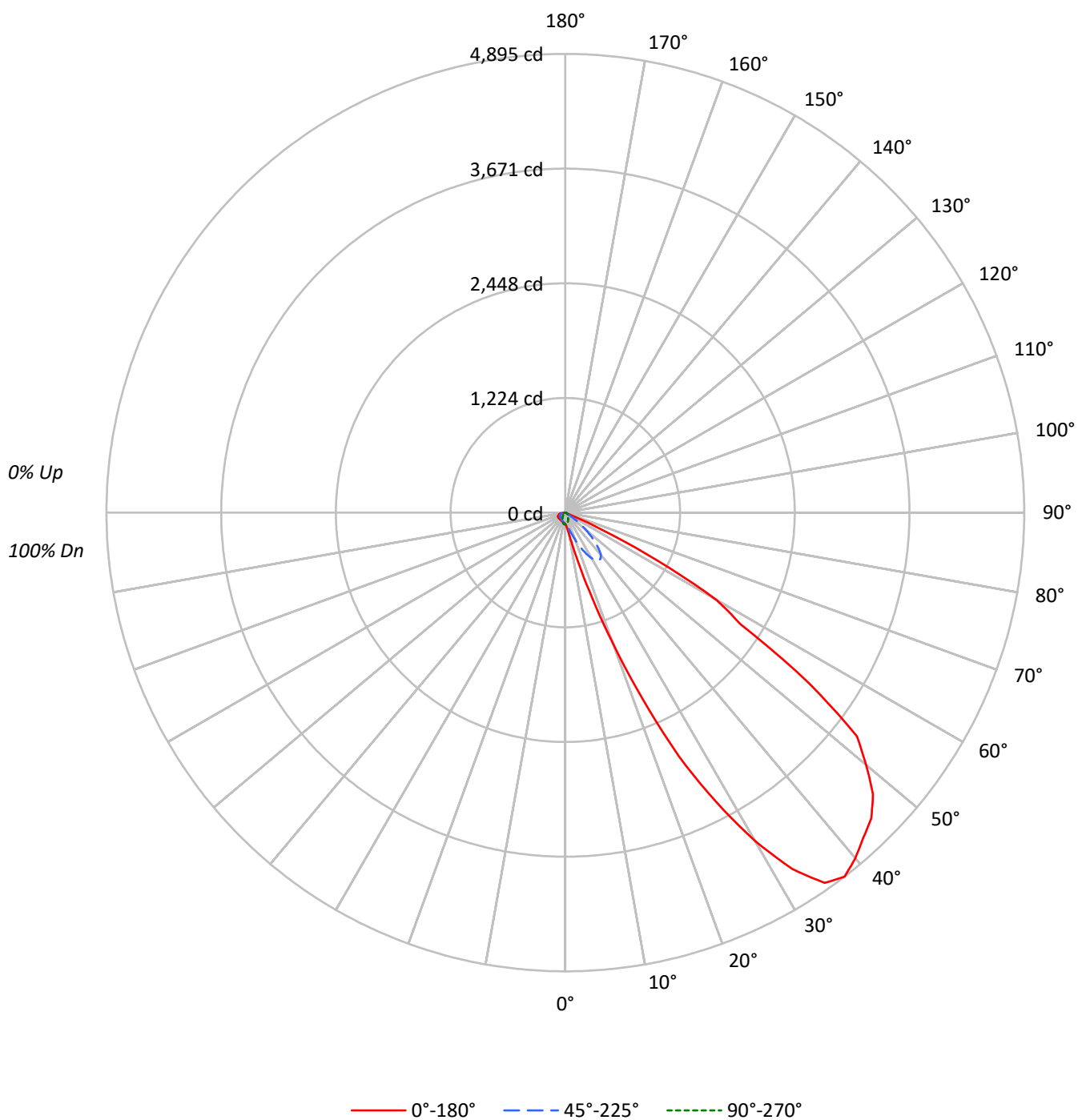
Lumens per Lamp: N/A
Luminaire Lumens: 2186.9 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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			0
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	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51		
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43		
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36		
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31		
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26		
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22		
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21786	21786	21786	21786	21786
5°	25932	24048	21558	20002	20002
10°	41394	28121	20234	18957	18957
15°	103110	37692	18365	17723	18365
20°	271578	56302	15890	16898	17888
25°	545301	83441	13739	15791	17520
30°	803894	111762	11136	15452	17977
35°	1014033	131067	9503	15201	18607
40°	1081882	132442	8521	15850	19897
45°	1124076	110479	7916	17171	21555
50°	1122309	76977	7743	18407	24221
55°	953869	34170	8137	20628	26573
60°	641116	6854	8094	23043	30483
65°	170096	2934	8110	25021	34598
70°	4532	3626	8208	27292	39125
75°	3593	3593	8384	28879	44516
80°	3570	5356	8926	30448	50185
85°	3557	7114	14227	32209	49994

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 1153037 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.6	0.6
10°-20°	61.7	2.8
20°-30°	254.4	11.6
30°-40°	536.2	24.5
40°-50°	661.5	30.2
50°-60°	495.8	22.7
60°-70°	127.6	5.8
70°-80°	26.4	1.2
80°-90°	10.7	0.5
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°	328.7	15.0
0°-40°	864.9	39.5
0°-60°	2022.2	92.5
0°-90°	2186.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2186.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	126	126	126	126	126	
5°	150	139	125	116	116	17
15°	578	211	103	99	103	212
25°	2870	439	72	83	92	1337
35°	4823	623	45	72	88	2939
45°	4615	454	32	70	88	3532
55°	3177	114	27	69	88	2743
65°	417	7	20	61	85	602
75°	5	5	13	43	67	6
85°	2	4	7	16	25	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5	126.5
2.5°	133.7	133.7	133.7	133.7	133.7	133.7	133.7	131.9	130.1	126.5	122.9
5°	150.0	148.2	148.2	148.2	146.4	144.6	144.6	139.1	131.9	124.7	119.3
7.5°	177.1	177.1	175.3	171.7	169.9	166.2	162.6	148.2	131.9	121.1	113.8
10°	236.7	233.1	227.7	224.1	215.0	202.4	193.4	160.8	130.1	115.7	110.2
12.5°	354.2	361.4	343.3	325.3	300.0	276.5	247.6	182.5	130.1	110.2	104.8
15°	578.3	590.9	556.6	520.4	459.0	401.2	347.0	211.4	126.5	103.0	97.6
17.5°	945.1	961.4	903.5	818.6	722.8	607.2	507.8	251.2	122.9	95.8	92.2
20°	1481.8	1480.0	1367.9	1261.3	1077.0	907.1	721.0	307.2	117.5	86.7	86.7
22.5°	2141.4	2148.6	2011.3	1819.7	1557.7	1284.8	988.5	372.3	110.2	79.5	81.3
25°	2869.6	2808.2	2645.5	2412.4	2078.1	1700.4	1310.1	439.1	103.0	72.3	75.9
27.5°	3476.8	3417.2	3231.0	2954.6	2594.9	2146.8	1637.2	506.0	94.0	65.1	70.5
30°	4042.4	3966.5	3742.4	3429.8	3001.5	2517.2	1944.4	562.0	83.1	56.0	65.1
32.5°	4508.6	4440.0	4185.2	3821.9	3355.7	2835.3	2204.6	605.4	72.3	50.6	61.4
35°	4823.1	4752.6	4517.7	4118.3	3610.5	3066.6	2416.0	623.4	63.2	45.2	59.6
37.5°	4895.3	4857.4	4689.3	4315.3	3785.8	3214.8	2551.6	618.0	52.4	41.6	56.0
40°	4812.2	4821.2	4741.7	4430.9	3879.8	3278.0	2607.6	589.1	43.4	37.9	54.2
42.5°	4705.6	4729.1	4723.7	4477.9	3919.5	3281.6	2584.1	531.3	34.3	34.3	52.4
45°	4615.2	4638.7	4671.3	4458.0	3892.4	3234.6	2510.0	453.6	25.3	32.5	52.4
47.5°	4450.8	4476.1	4523.1	4299.0	3755.1	3113.6	2376.3	368.6	18.1	30.7	50.6
50°	4188.8	4201.4	4188.8	3937.6	3491.2	2918.4	2159.4	287.3	12.6	28.9	50.6
52.5°	3919.5	3894.2	3789.4	3471.4	3072.0	2609.4	1886.6	204.2	9.0	27.1	48.8
55°	3176.8	3137.1	3059.4	2864.2	2636.5	2229.9	1525.2	113.8	9.0	27.1	47.0
57.5°	2213.7	2235.3	2262.4	2222.7	2117.9	1756.5	1158.3	50.6	9.0	25.3	47.0
60°	1861.3	1843.2	1845.0	1819.7	1646.2	1281.2	796.9	19.9	9.0	23.5	45.2
62.5°	1111.3	1124.0	1147.5	1152.9	981.2	715.6	417.4	9.0	9.0	21.7	43.4
65°	417.4	437.3	383.1	332.5	263.8	193.4	97.6	7.2	10.8	19.9	39.8
67.5°	12.6	14.5	18.1	16.3	16.3	14.5	10.8	7.2	10.8	18.1	37.9
70°	9.0	9.0	9.0	9.0	9.0	7.2	7.2	7.2	9.0	16.3	34.3
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	9.0	14.5	30.7
75°	5.4	7.2	5.4	5.4	5.4	5.4	5.4	5.4	9.0	12.6	25.3
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2	10.8	21.7
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.4	7.2	9.0	18.1
82.5°	3.6	3.6	3.6	1.8	3.6	3.6	3.6	3.6	7.2	7.2	14.5
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	5.4	7.2	9.0
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.6	5.4	5.4	5.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	126.5	126.5	126.5
2.5°	119.3	119.3	119.3
5°	115.7	115.7	115.7
7.5°	112.0	112.0	112.0
10°	108.4	108.4	108.4
12.5°	104.8	104.8	106.6
15°	99.4	103.0	103.0
17.5°	95.8	99.4	101.2
20°	92.2	95.8	97.6
22.5°	86.7	92.2	95.8
25°	83.1	90.4	92.2
27.5°	79.5	88.5	92.2
30°	77.7	86.7	90.4
32.5°	74.1	84.9	88.5
35°	72.3	84.9	88.5
37.5°	72.3	83.1	88.5
40°	70.5	83.1	88.5
42.5°	70.5	83.1	88.5
45°	70.5	83.1	88.5
47.5°	68.7	83.1	90.4
50°	68.7	84.9	90.4
52.5°	68.7	84.9	90.4
55°	68.7	84.9	88.5
57.5°	66.9	83.1	88.5
60°	66.9	83.1	88.5
62.5°	63.2	81.3	86.7
65°	61.4	79.5	84.9
67.5°	57.8	77.7	81.3
70°	54.2	72.3	77.7
72.5°	48.8	68.7	74.1
75°	43.4	63.2	66.9
77.5°	37.9	56.0	59.6
80°	30.7	47.0	50.6
82.5°	23.5	36.1	37.9
85°	16.3	23.5	25.3
87.5°	7.2	10.8	12.6
90°	0.0	0.0	0.0

(END OF REPORT)