

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: P1313607

Luminaire Tested: P3SQAS17R509730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

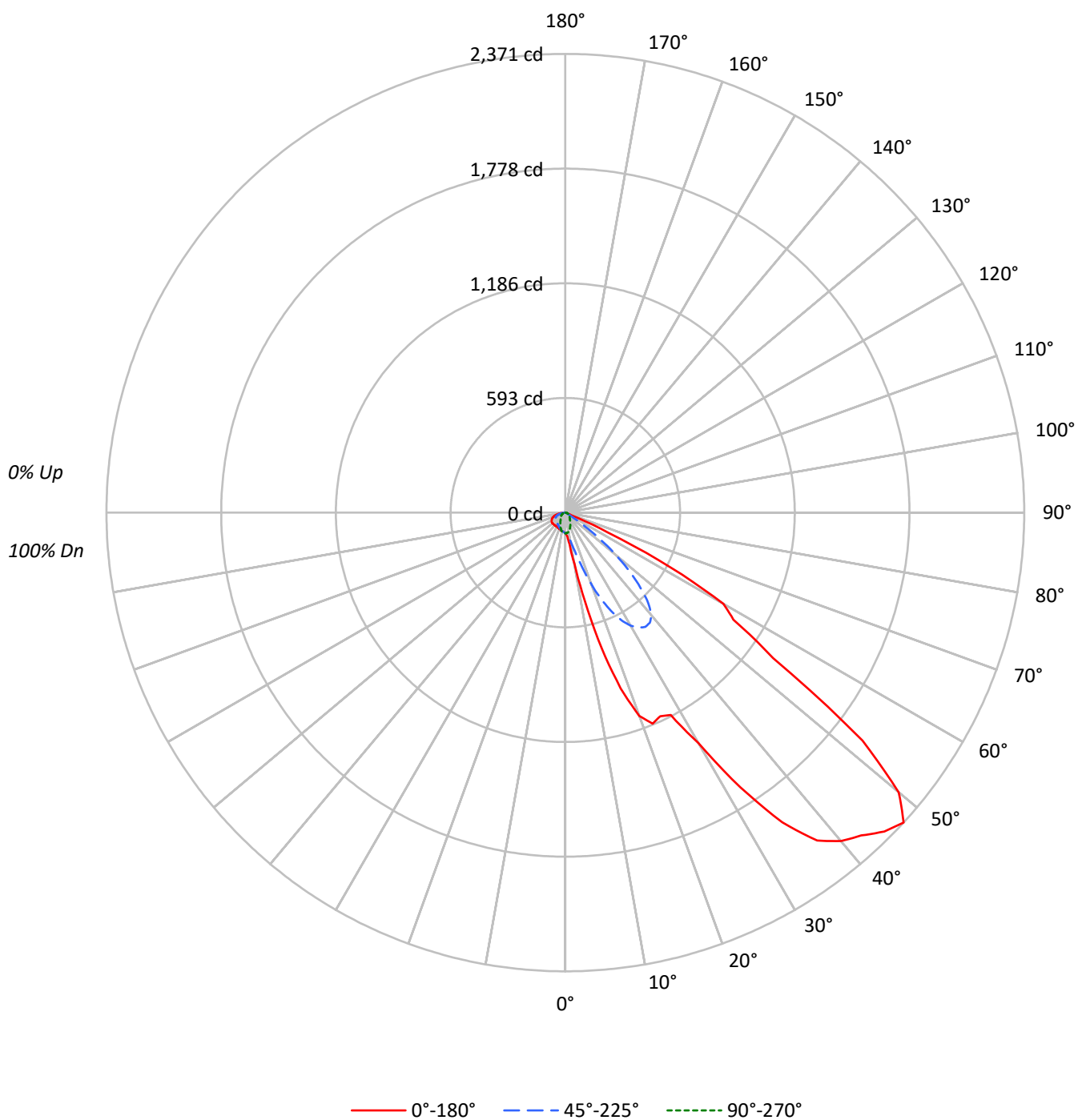
Lumens per Lamp: N/A
Luminaire Lumens: 1337.0 lumens
Efficiency: N/A
Efficacy: 63.1 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.83 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	18290	18290	18290	18290	18290
5°	21766	20365	18170	17374	17167
10°	46850	25253	17366	16771	16963
15°	129712	41383	15655	16065	16671
20°	205085	72595	13544	15450	16293
25°	220545	106643	11630	14917	16456
30°	273738	133896	10102	14696	17003
35°	410819	151503	8746	14801	17976
40°	498225	155778	7779	15310	18952
45°	567591	133592	7599	16318	20824
50°	602416	92195	7743	17630	23203
55°	393552	37112	7627	19067	25672
60°	324571	6372	7543	20701	28245
65°	97885	3301	7050	22128	31053
70°	4079	3474	6999	22660	33738
75°	3859	3859	6920	23023	36864
80°	3471	3471	6843	22910	37787
85°	2371	4545	9090	22724	36557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 604368 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.8
10°-20°	63.3	4.7
20°-30°	162.8	12.2
30°-40°	292.3	21.9
40°-50°	390.5	29.2
50°-60°	297.4	22.2
60°-70°	90.3	6.8
70°-80°	21.6	1.6
80°-90°	7.8	0.6
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°	237.1	17.7
0°-40°	529.5	39.6
0°-60°	1217.4	91.1
0°-90°	1337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	106	106	106	106	106	
5°	126	118	105	100	99	16
15°	728	232	88	90	94	214
25°	1161	561	61	78	87	554
35°	1954	721	42	70	86	1200
45°	2330	548	31	67	86	1782
55°	1311	124	25	64	86	1304
65°	240	8	17	54	76	332
75°	6	6	10	35	55	6
85°	1	2	5	12	18	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2	106.2
2.5°	113.2	113.2	113.2	113.2	113.2	113.2	112.0	112.0	112.0	109.7	107.4
5°	125.9	127.0	125.9	125.9	123.6	123.6	121.3	121.3	117.8	110.9	105.1
7.5°	165.1	164.0	162.8	158.2	154.7	146.7	143.2	137.4	127.0	110.9	102.8
10°	267.9	261.0	256.4	246.0	224.0	210.2	191.7	173.2	144.4	110.9	99.3
12.5°	465.4	464.2	450.4	415.7	384.6	341.8	296.8	251.8	177.8	108.6	94.7
15°	727.5	717.1	697.5	657.1	601.7	534.7	453.8	374.2	232.1	105.1	87.8
17.5°	951.6	938.9	923.9	883.4	819.9	735.6	638.6	528.9	306.0	100.5	80.8
20°	1119.0	1110.9	1098.2	1065.9	1005.8	929.6	821.1	688.3	396.1	94.7	73.9
22.5°	1180.2	1179.1	1181.4	1169.8	1139.8	1079.8	975.8	837.2	485.0	87.8	67.0
25°	1160.6	1159.4	1174.5	1189.5	1196.4	1172.1	1092.5	957.3	561.2	82.0	61.2
27.5°	1179.1	1175.6	1168.7	1171.0	1190.6	1204.5	1167.5	1049.7	627.1	73.9	55.4
30°	1376.5	1356.9	1325.7	1272.6	1233.3	1229.9	1213.7	1122.5	673.3	65.8	50.8
32.5°	1684.9	1660.6	1604.0	1505.9	1412.3	1340.7	1289.9	1183.7	705.6	57.7	45.0
35°	1954.0	1936.6	1870.8	1773.8	1639.8	1505.9	1413.5	1273.8	720.6	50.8	41.6
37.5°	2136.4	2129.5	2064.8	1960.9	1824.6	1666.4	1544.0	1366.2	717.1	42.7	38.1
40°	2216.1	2195.3	2141.0	2053.3	1915.8	1773.8	1644.5	1425.0	692.9	34.6	34.6
42.5°	2263.4	2240.3	2181.5	2098.3	1963.2	1811.9	1656.0	1399.6	635.2	27.7	33.5
45°	2330.4	2306.2	2228.8	2139.9	2003.6	1828.1	1611.0	1309.6	548.5	20.8	31.2
47.5°	2370.8	2354.7	2296.9	2208.0	2042.9	1805.0	1507.0	1225.3	452.7	16.2	30.0
50°	2248.4	2232.3	2189.5	2128.3	2017.5	1727.6	1415.8	1089.0	344.1	12.7	28.9
52.5°	1935.5	1949.3	1957.4	1974.7	1893.9	1554.4	1279.5	980.4	232.1	10.4	26.6
55°	1310.7	1331.5	1354.6	1423.9	1518.6	1383.5	1136.3	847.6	123.6	10.4	25.4
57.5°	1030.1	1023.2	1016.2	1011.6	1085.5	1141.0	998.9	677.9	53.1	10.4	23.1
60°	942.3	921.5	907.7	911.2	948.1	926.2	791.1	442.3	18.5	10.4	21.9
62.5°	617.8	634.0	665.2	718.3	692.9	594.7	459.6	175.5	9.2	10.4	19.6
65°	240.2	232.1	240.2	255.2	220.6	164.0	102.8	31.2	8.1	9.2	17.3
67.5°	32.3	28.9	21.9	13.9	12.7	11.5	9.2	8.1	8.1	9.2	16.2
70°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	6.9	6.9	8.1	13.9
72.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.1	11.5
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.9	10.4
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.8	8.1
80°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.6	6.9
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.6	5.8
85°	1.2	2.3	1.2	2.3	2.3	2.3	2.3	2.3	2.3	3.5	4.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.3	3.5	3.5
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):

	112.5°	135°	157.5°	180°
0°	106.2	106.2	106.2	106.2
2.5°	105.1	102.8	102.8	102.8
5°	102.8	100.5	100.5	99.3
7.5°	99.3	98.2	98.2	98.2
10°	97.0	95.9	97.0	97.0
12.5°	92.4	93.5	94.7	94.7
15°	87.8	90.1	92.4	93.5
17.5°	83.1	87.8	90.1	91.2
20°	78.5	84.3	87.8	88.9
22.5°	75.1	80.8	85.5	87.8
25°	70.4	78.5	84.3	86.6
27.5°	65.8	75.1	82.0	85.5
30°	62.4	73.9	82.0	85.5
32.5°	58.9	71.6	80.8	84.3
35°	56.6	70.4	80.8	85.5
37.5°	54.3	69.3	80.8	84.3
40°	53.1	68.1	80.8	84.3
42.5°	52.0	68.1	80.8	85.5
45°	49.7	67.0	80.8	85.5
47.5°	48.5	67.0	80.8	85.5
50°	47.3	65.8	80.8	86.6
52.5°	46.2	64.7	80.8	86.6
55°	43.9	63.5	79.7	85.5
57.5°	42.7	62.4	78.5	83.1
60°	40.4	60.1	76.2	82.0
62.5°	38.1	57.7	73.9	78.5
65°	34.6	54.3	70.4	76.2
67.5°	31.2	49.7	67.0	72.8
70°	27.7	45.0	62.4	67.0
72.5°	24.3	40.4	57.7	61.2
75°	20.8	34.6	50.8	55.4
77.5°	17.3	30.0	42.7	46.2
80°	12.7	23.1	34.6	38.1
82.5°	10.4	17.3	25.4	27.7
85°	6.9	11.5	16.2	18.5
87.5°	3.5	5.8	8.1	9.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)