

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: P1308246

Luminaire Tested: P3SQAS17R709030DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R709030DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

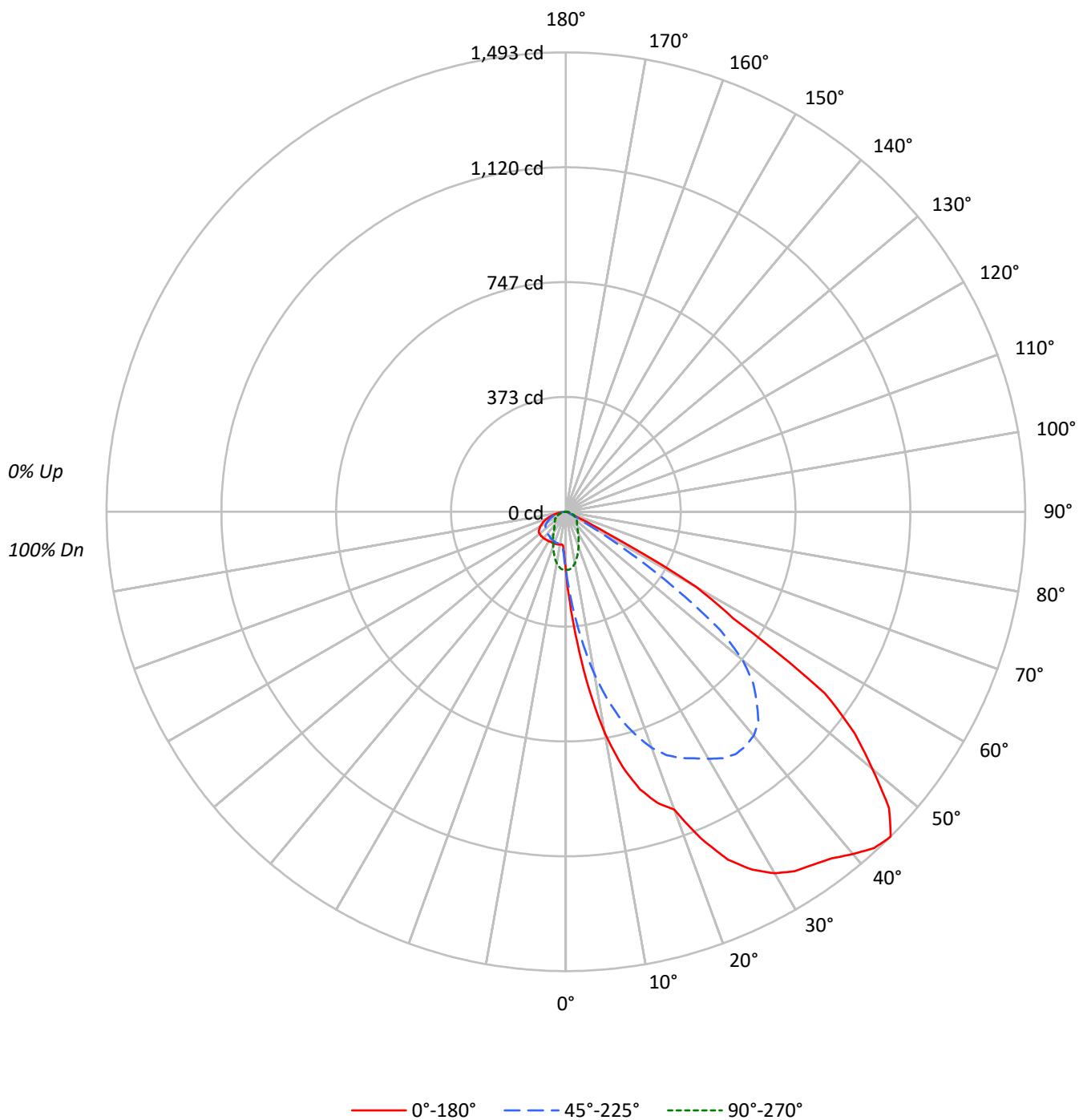
Lumens per Lamp: N/A
Luminaire Lumens: 1290.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308246

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1308246

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA451MMS

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32361	32361	32361	32361	32361
5°	73647	58970	32035	20244	18913
10°	127610	93630	29712	18450	18904
15°	166602	125058	25925	18810	19506
20°	188700	149553	22176	19097	20289
25°	236982	167775	18585	19326	20789
30°	269761	184289	15869	19708	22014
35°	294406	202130	13792	20015	23274
40°	326395	213535	12725	20841	25180
45°	363634	213797	12543	21945	27279
50°	348283	201029	12405	23096	29660
55°	308398	130223	12761	24351	32068
60°	168916	27935	12848	24835	33239
65°	12062	6805	12592	24655	33579
70°	5841	6496	11682	23314	32428
75°	5124	6854	11112	22291	29944
80°	5058	6347	10215	20431	28068
85°	5138	7707	10078	17784	25491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 363634 cd/sqm

TEST NUMBER: P1308246

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.5	1.9
10°-20°	104.8	8.1
20°-30°	201.1	15.6
30°-40°	284.4	22.0
40°-50°	321.8	24.9
50°-60°	254.8	19.8
60°-70°	68.7	5.3
70°-80°	22.8	1.8
80°-90°	7.0	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°	330.5	25.6
0°-40°	614.9	47.7
0°-60°	1191.5	92.4
0°-90°	1290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1290.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	188	188	188	188	188	
5°	426	341	185	117	109	50
15°	934	701	145	106	109	263
25°	1247	883	98	102	109	572
35°	1400	961	66	95	111	882
45°	1493	878	52	90	112	1117
55°	1027	434	42	81	107	834
65°	30	17	31	60	82	107
75°	8	10	17	34	45	8
85°	3	4	5	9	13	3
90°	0	0	0	0	0	

TEST NUMBER: P1308246

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	187.9	187.9	187.9	187.9	187.9	187.9	187.9	187.9	187.9	187.9	187.9
2.5°	292.2	292.2	290.9	285.7	283.1	276.7	271.6	257.4	222.7	189.2	162.2
5°	426.0	432.4	423.4	422.1	414.4	402.8	395.1	341.1	257.4	185.3	139.0
7.5°	584.3	586.9	584.3	571.4	559.9	540.6	522.5	437.6	292.2	178.9	122.3
10°	729.7	725.9	718.2	709.2	692.4	671.8	640.9	535.4	325.6	169.9	112.0
12.5°	848.2	846.9	837.9	828.9	808.3	781.2	750.3	624.2	353.9	158.3	106.8
15°	934.4	934.4	925.4	915.1	895.8	873.9	839.1	701.4	377.1	145.4	101.7
17.5°	992.3	989.7	983.3	975.6	960.1	938.2	911.2	763.2	392.5	132.6	100.4
20°	1029.6	1028.3	1023.2	1011.6	998.7	982.0	957.6	816.0	399.0	121.0	99.1
22.5°	1149.3	1139.0	1119.7	1095.3	1064.4	1024.5	991.0	855.9	396.4	108.1	96.5
25°	1247.1	1243.3	1222.7	1193.1	1151.9	1100.4	1045.1	882.9	383.5	97.8	94.0
27.5°	1311.5	1305.1	1285.7	1253.6	1209.8	1159.6	1108.1	903.5	365.5	88.8	90.1
30°	1356.5	1352.7	1333.4	1297.3	1252.3	1196.9	1144.2	926.7	341.1	79.8	86.2
32.5°	1384.8	1381.0	1361.7	1329.5	1285.7	1227.8	1167.3	949.8	311.5	72.1	82.4
35°	1400.3	1396.4	1374.6	1346.2	1305.1	1248.4	1184.1	961.4	275.4	65.6	78.5
37.5°	1419.6	1411.9	1382.3	1347.5	1306.3	1253.6	1189.2	960.1	239.4	60.5	75.9
40°	1451.8	1431.2	1388.7	1342.4	1299.9	1247.1	1185.4	949.8	199.5	56.6	73.4
42.5°	1482.7	1453.1	1390.0	1334.7	1287.0	1235.6	1171.2	926.7	155.7	54.1	72.1
45°	1493.0	1449.2	1372.0	1316.6	1271.6	1218.8	1151.9	877.8	105.5	51.5	69.5
47.5°	1424.7	1392.6	1328.2	1287.0	1244.6	1193.1	1123.6	826.3	60.5	48.9	66.9
50°	1299.9	1279.3	1243.3	1217.5	1194.4	1158.3	1090.1	750.3	36.0	46.3	64.4
52.5°	1184.1	1177.6	1151.9	1131.3	1118.4	1101.7	1039.9	633.2	29.6	45.0	61.8
55°	1027.1	1006.5	1000.0	992.3	1019.3	1018.0	934.4	433.7	28.3	42.5	59.2
57.5°	644.8	653.8	687.3	749.1	822.4	864.9	862.3	231.7	27.0	39.9	55.3
60°	490.4	489.1	499.4	525.1	579.2	639.7	696.3	81.1	25.7	37.3	52.8
62.5°	146.7	150.6	181.5	266.4	319.2	393.8	359.1	19.3	24.5	33.5	47.6
65°	29.6	30.9	30.9	34.7	42.5	64.4	78.5	16.7	23.2	30.9	43.8
67.5°	12.9	12.9	12.9	14.2	14.2	16.7	14.2	15.4	20.6	27.0	38.6
70°	11.6	11.6	11.6	11.6	11.6	11.6	12.9	12.9	18.0	23.2	33.5
72.5°	9.0	9.0	9.0	10.3	10.3	10.3	10.3	11.6	15.4	19.3	28.3
75°	7.7	7.7	7.7	7.7	9.0	9.0	9.0	10.3	12.9	16.7	23.2
77.5°	6.4	6.4	6.4	6.4	6.4	7.7	7.7	7.7	10.3	12.9	19.3
80°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	6.4	7.7	10.3	14.2
82.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	5.1	6.4	7.7	10.3
85°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.9	3.9	5.1	6.4
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1308246

CATALOG NUMBER: P3SQAS17R709030DE010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	187.9	187.9	187.9
2.5°	142.9	135.1	131.3
5°	117.1	110.7	109.4
7.5°	108.1	106.8	106.8
10°	105.5	106.8	108.1
12.5°	105.5	108.1	109.4
15°	105.5	108.1	109.4
17.5°	105.5	108.1	109.4
20°	104.2	108.1	110.7
22.5°	103.0	108.1	109.4
25°	101.7	108.1	109.4
27.5°	100.4	106.8	109.4
30°	99.1	106.8	110.7
32.5°	96.5	106.8	110.7
35°	95.2	106.8	110.7
37.5°	94.0	106.8	112.0
40°	92.7	106.8	112.0
42.5°	91.4	106.8	112.0
45°	90.1	105.5	112.0
47.5°	87.5	105.5	112.0
50°	86.2	104.2	110.7
52.5°	83.7	103.0	110.7
55°	81.1	100.4	106.8
57.5°	77.2	96.5	101.7
60°	72.1	91.4	96.5
62.5°	65.6	84.9	88.8
65°	60.5	77.2	82.4
67.5°	52.8	68.2	73.4
70°	46.3	59.2	64.4
72.5°	39.9	50.2	55.3
75°	33.5	41.2	45.0
77.5°	25.7	33.5	36.0
80°	20.6	25.7	28.3
82.5°	14.2	18.0	19.3
85°	9.0	11.6	12.9
87.5°	3.9	5.1	5.1
90°	0.0	0.0	0.0

(END OF REPORT)