

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: P1336597

Luminaire Tested: P3A05R15B2750DE010 E3CA451MMS_2700K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336597
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R15B2750DE010 E3CA451MMS_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R15 optic, 2700K CCT AND, 90CRI , E3CA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

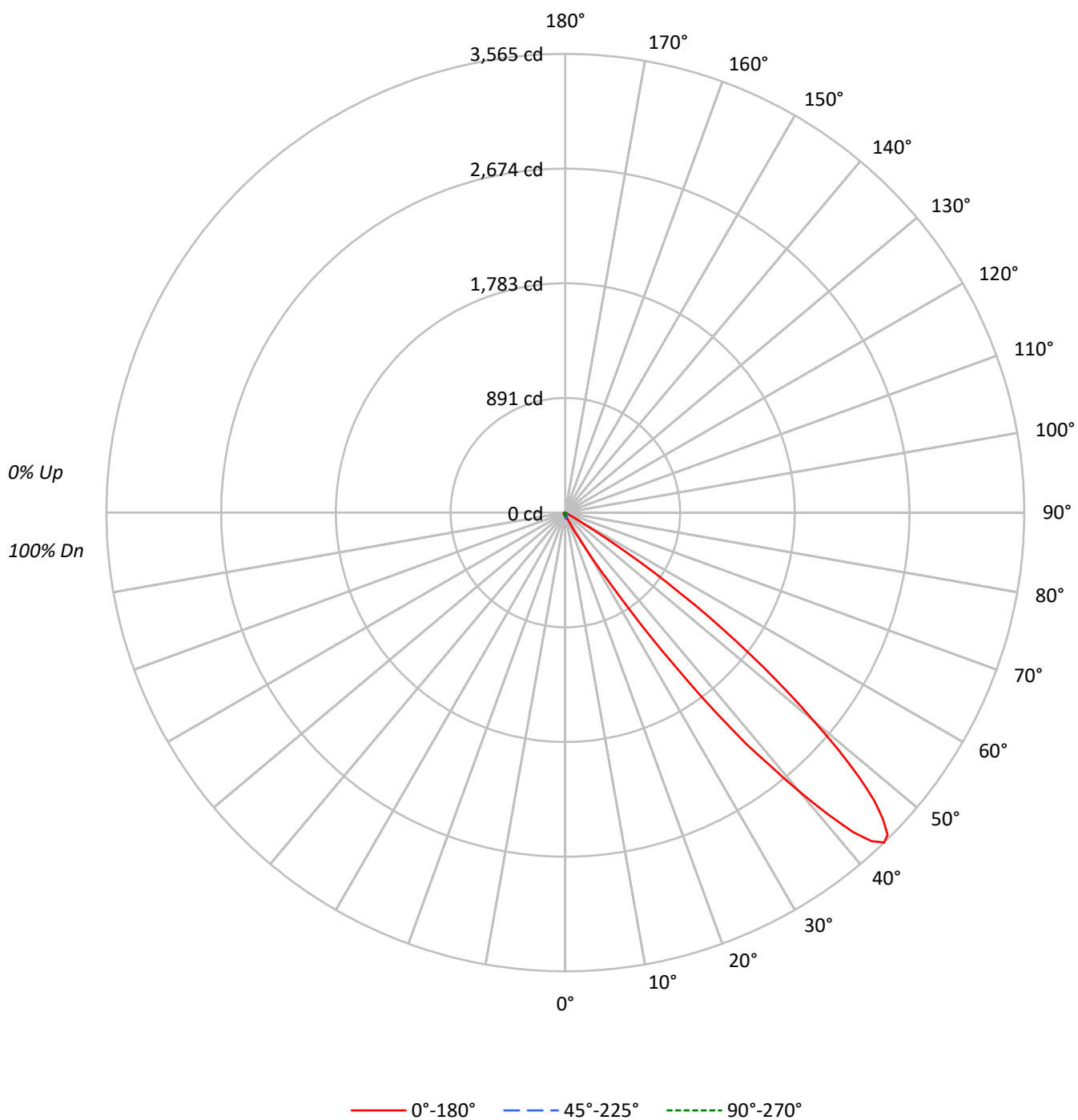
Lumens per Lamp: N/A
Luminaire Lumens: 398.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

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	100		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7741	7741	7741	7741	7741
5°	9619	8563	6978	6119	6031
10°	9463	7326	5388	4765	4854
15°	7832	5221	3882	3973	4245
20°	13605	4177	2964	3430	3897
25°	30340	4984	2395	3170	3653
30°	90723	6128	2102	3114	3823
35°	349285	6906	1901	3186	4042
40°	810748	6011	1803	3292	4322
45°	1098098	4559	1613	3566	4683
50°	861004	2695	1637	3787	5151
55°	413271	1223	1529	4091	5620
60°	37760	175	1403	4342	6271
65°	4099	0	1245	4514	6797
70°	1026	0	1539	4809	7373
75°	1017	339	2033	5338	8388
80°	1010	1010	2526	5556	8966
85°	1006	1006	4026	5032	10064

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1098098 cd/sqm

TEST NUMBER: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.0	0.8
10°-20°	6.3	1.6
20°-30°	15.0	3.8
30°-40°	82.3	20.7
40°-50°	199.4	50.1
50°-60°	79.5	20.0
60°-70°	6.9	1.7
70°-80°	3.9	1.0
80°-90°	1.7	0.4
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°	24.3	6.1
0°-40°	106.7	26.8
0°-60°	385.5	96.9
0°-90°	398.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	398.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	44	39	32	28	27	4
15°	34	23	17	18	19	12
25°	125	21	10	13	15	76
35°	1305	26	7	12	15	922
45°	3541	15	5	12	15	2498
55°	1081	3	4	11	15	1007
65°	8	0	2	9	13	20
75°	1	0	2	6	10	1
85°	0	0	2	2	4	0
90°	0	0	0	0	0	

TEST NUMBER: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3	35.3
2.5°	39.7	39.7	40.1	39.7	39.7	39.7	39.7	39.3	39.3	39.3	38.1
5°	43.7	43.7	43.7	43.7	43.3	43.3	43.3	42.9	42.9	42.5	38.9
7.5°	45.2	45.2	44.8	44.8	44.4	44.4	44.0	43.7	43.3	42.9	37.3
10°	42.5	42.5	42.5	42.1	42.1	41.7	41.3	40.9	40.5	39.7	32.9
12.5°	37.7	37.7	38.1	37.7	37.3	36.9	36.1	35.7	35.3	34.5	27.4
15°	34.5	34.5	34.5	34.1	33.7	32.9	32.5	31.7	31.4	30.2	23.0
17.5°	44.0	44.0	43.7	42.9	41.3	40.1	38.1	36.5	34.5	32.1	19.8
20°	58.3	58.3	57.5	56.7	54.8	52.8	49.6	46.8	43.7	40.9	17.9
22.5°	84.5	85.7	83.3	80.6	77.8	73.0	68.7	64.3	58.7	54.0	18.3
25°	125.4	126.6	125.4	119.1	113.9	107.5	99.2	90.5	81.0	72.2	20.6
27.5°	203.2	204.0	202.0	186.5	178.2	161.5	146.8	132.5	116.7	100.8	22.6
30°	358.3	358.7	346.0	315.1	287.7	251.2	220.2	190.5	165.5	140.1	24.2
31°	471.8	460.7	433.7	396.4	352.8	303.6	261.1	222.6	185.3	157.9	24.6
32°	599.2	597.6	552.8	488.1	429.8	368.3	304.4	255.2	212.3	175.0	25.0
33°	767.9	768.7	698.0	621.9	526.2	443.7	359.9	292.5	240.9	195.2	25.8
34°	1031.4	969.5	886.5	783.4	653.2	529.0	420.3	335.7	266.7	214.7	25.8
35°	1304.8	1242.5	1151.2	994.9	816.3	642.5	492.1	382.2	297.6	235.7	25.8
36°	1611.2	1558.4	1420.3	1220.7	992.9	749.6	568.3	435.7	328.2	254.8	25.4
37°	1942.2	1864.8	1711.6	1493.7	1188.9	900.4	661.1	488.9	358.7	275.4	24.6
38°	2278.3	2208.4	2015.2	1751.3	1423.1	1059.6	754.0	540.1	386.9	290.9	23.4
39°	2533.1	2495.0	2303.3	2008.4	1610.0	1210.4	849.6	594.9	416.7	306.4	22.2
40°	2832.3	2770.8	2589.0	2224.3	1831.0	1364.0	943.3	643.3	441.3	318.7	21.0
41°	3105.3	3027.5	2798.1	2445.7	2008.0	1502.1	1032.2	693.3	461.1	325.8	20.2
42°	3339.4	3249.0	3009.3	2635.4	2156.1	1612.4	1103.2	729.0	479.8	331.8	19.0
43°	3491.0	3412.9	3177.1	2777.9	2282.6	1713.6	1169.5	766.3	491.3	335.7	17.5
44°	3564.8	3485.9	3257.7	2867.2	2360.4	1774.3	1212.4	792.1	504.0	340.9	16.3
45°	3541.0	3460.9	3240.2	2868.8	2384.6	1796.1	1230.6	803.6	510.7	345.7	14.7
46°	3431.9	3375.6	3153.3	2794.2	2338.6	1772.7	1220.3	794.9	508.4	345.7	13.1
47°	3278.7	3214.4	3002.9	2666.0	2227.1	1712.4	1178.6	768.3	493.7	337.7	11.5
48°	3070.0	3015.2	2793.0	2462.4	2056.0	1581.0	1084.6	725.0	470.7	322.2	9.9
49°	2808.1	2731.9	2525.1	2202.1	1833.0	1394.5	961.2	652.0	433.7	300.4	8.7
50°	2523.9	2429.9	2270.3	1941.4	1602.5	1195.7	798.8	551.2	381.8	271.8	7.9
51°	2245.7	2150.1	1998.1	1718.3	1356.4	992.1	644.5	440.1	314.3	232.6	6.7
52°	1957.2	1877.1	1706.8	1487.0	1161.2	804.0	536.9	372.2	261.1	195.2	5.6
53°	1669.9	1615.2	1453.2	1230.6	933.0	656.8	438.5	318.7	227.8	167.1	4.4
54°	1382.2	1322.3	1199.3	1000.8	752.0	518.3	371.8	266.7	197.6	145.6	4.0
55°	1081.0	1050.0	936.6	763.1	569.9	413.5	301.6	229.4	165.5	121.8	3.2
56°	832.6	797.7	694.1	553.6	423.4	323.8	244.1	187.3	140.1	102.0	2.4
57°	545.3	509.5	440.9	386.5	308.3	236.1	186.5	147.6	113.9	84.5	2.0
58°	322.2	289.7	279.0	238.1	205.6	160.3	137.7	109.9	84.1	66.7	1.2
59°	148.0	150.4	133.7	125.4	113.9	102.0	83.7	73.4	57.5	48.0	0.8
60°	86.1	81.4	79.4	71.0	63.1	56.0	50.4	44.4	36.1	31.0	0.4
62.5°	29.4	28.2	29.0	26.2	24.6	23.8	21.8	18.7	15.5	12.7	0.0
65°	7.9	7.9	7.5	7.1	6.7	6.3	6.0	5.2	4.8	4.0	0.0



TEST NUMBER: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	2.8	2.8	2.4	2.4	2.0	2.0	1.6	1.6	1.2	1.2	0.0
70°	1.6	1.6	1.6	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.0
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.8	0.8	0.8	0.4	0.4
75°	1.2	1.2	1.2	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.4	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4
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: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	35.3	35.3	35.3	35.3	35.3	35.3
2.5°	36.5	34.9	32.9	31.7	31.4	31.0
5°	34.9	31.7	29.4	27.8	27.4	27.4
7.5°	31.4	27.8	25.4	24.6	24.2	24.2
10°	27.4	24.2	22.2	21.4	21.8	21.8
12.5°	23.0	20.2	19.4	19.4	19.8	20.2
15°	18.7	17.1	17.1	17.5	18.3	18.7
17.5°	15.5	14.7	15.1	15.9	16.7	17.5
20°	12.7	12.7	13.5	14.7	15.9	16.7
22.5°	10.7	11.1	12.3	13.5	15.1	15.9
25°	9.1	9.9	11.1	13.1	14.7	15.1
27.5°	7.9	9.1	10.7	12.7	14.3	15.1
30°	6.7	8.3	10.3	12.3	14.3	15.1
31°	6.3	7.9	9.9	12.3	14.3	15.1
32°	6.0	7.9	9.9	12.3	14.3	15.1
33°	5.6	7.5	9.9	11.9	14.3	15.1
34°	5.2	7.5	9.9	12.3	14.3	15.1
35°	4.8	7.1	9.5	11.9	13.9	15.1
36°	4.4	7.1	9.5	11.9	14.3	15.1
37°	4.0	7.1	9.5	11.9	13.9	15.1
38°	4.0	6.7	9.1	11.9	13.9	15.1
39°	3.6	6.3	9.1	11.9	13.9	15.1
40°	3.2	6.3	8.7	11.5	13.9	15.1
41°	2.8	6.0	8.7	11.5	13.9	15.1
42°	2.4	6.0	8.7	11.5	13.9	15.1
43°	2.0	5.6	8.3	11.5	13.9	15.1
44°	2.0	5.6	8.3	11.5	13.9	15.1
45°	1.6	5.2	7.9	11.5	13.9	15.1
46°	1.6	5.2	7.9	11.1	13.9	15.1
47°	1.2	5.2	7.9	11.1	13.9	15.1
48°	1.2	4.8	7.9	11.1	13.9	15.1
49°	0.8	4.8	7.9	11.1	13.9	15.1
50°	0.8	4.8	7.5	11.1	13.9	15.1
51°	0.8	4.8	7.5	11.1	13.9	15.1
52°	0.8	4.4	7.5	11.1	13.9	15.1
53°	0.8	4.4	7.5	11.1	13.9	15.1
54°	0.8	4.4	7.1	11.1	13.9	15.1
55°	0.8	4.0	7.1	10.7	13.9	14.7
56°	0.8	4.0	7.1	10.7	13.9	14.7
57°	0.8	4.0	6.7	10.7	13.9	14.7
58°	0.8	3.6	6.7	10.3	13.5	14.7
59°	0.8	3.6	6.3	10.3	13.5	14.3
60°	0.8	3.2	6.3	9.9	13.1	14.3
62.5°	0.8	2.8	5.6	9.5	12.7	13.5
65°	0.8	2.4	5.2	8.7	12.3	13.1



TEST NUMBER: P1336597

CATALOG NUMBER: P3A05R15B2750DE010 E3CA451MMS_2700K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.8	2.4	4.8	8.3	11.5	12.7
70°	0.8	2.4	4.4	7.5	11.1	11.5
72.5°	1.2	2.4	4.0	7.1	10.3	10.7
75°	1.6	2.4	3.6	6.3	9.5	9.9
77.5°	1.6	2.4	3.2	5.6	8.3	8.7
80°	1.6	2.0	2.8	4.4	6.7	7.1
82.5°	1.6	2.0	2.0	3.6	5.2	5.6
85°	1.2	1.6	1.6	2.0	3.6	4.0
87.5°	1.2	1.6	0.8	1.2	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)