

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: P1338092

Luminaire Tested: P3A05R30B2750DE010 E3A451WMH_3500K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1338092
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-76)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R30B2750DE010 E3A451WMH_3500K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R30 optic, 3500K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

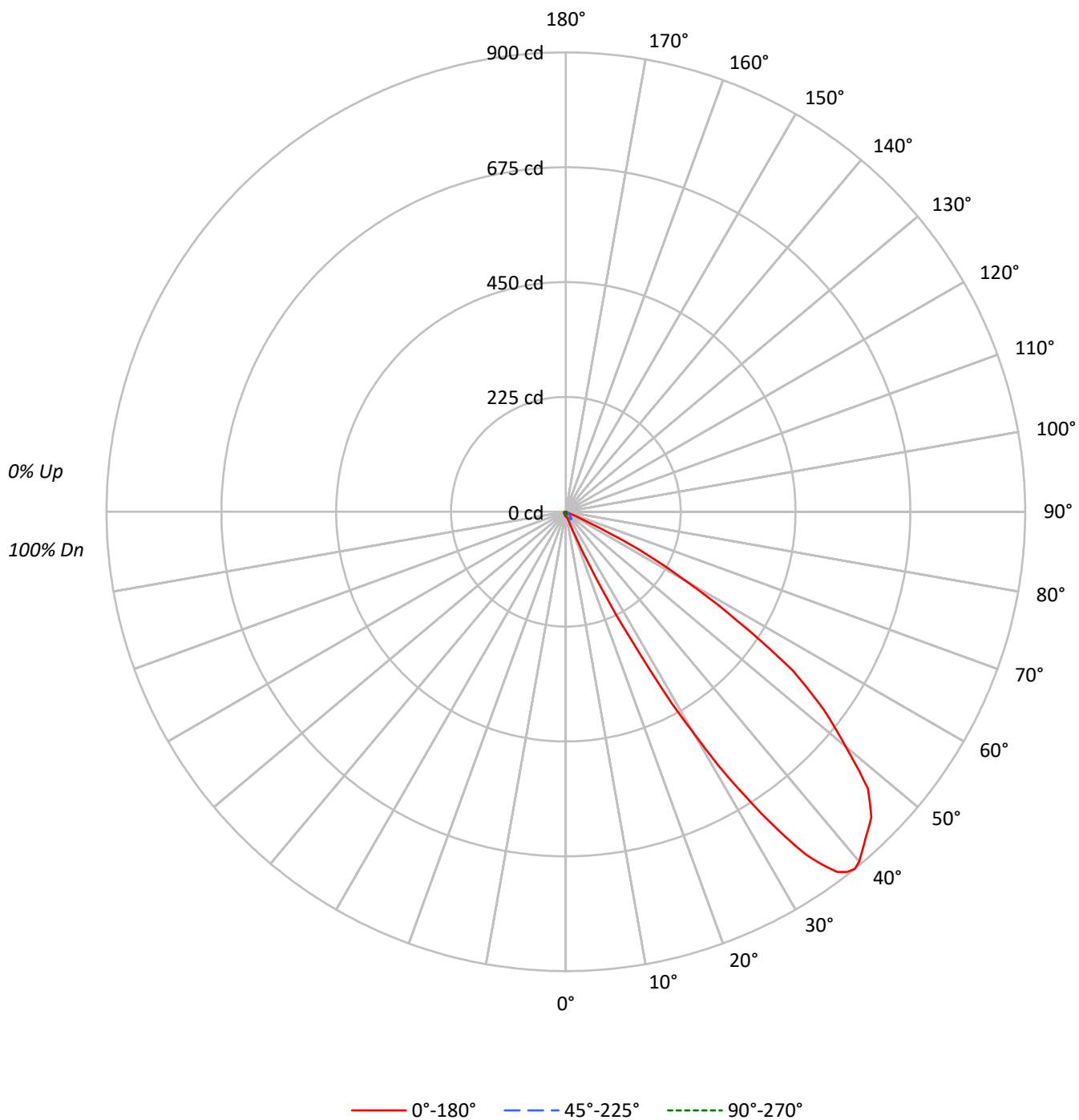
Lumens per Lamp: N/A
Luminaire Lumens: 234.0 lumens
Efficiency: N/A
Efficacy: 39.7 lumens/watt
Spacing Criteria (0/90/45): 4.07 / 0.65 / 1.44
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1338092

CATALOG NUMBER: P3A05R30B2750DE010 E3A451WMH_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1338092

CATALOG NUMBER: P3A05R30B2750DE010 E3A451WMH_3500K

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	0			
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	108	104	100	97	100	97	94	96	93	91	92	90	89	87						
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	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	52	50						
5	75	62	52	46	73	60	52	45	58	51	45	56	50	44	54	49	44	42						
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35						
7	62	48	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	32	26	37	31	26	24						
9	52	37	29	23	50	37	28	23	36	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	24	19	17						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1995	1995	1995	1995	1995
5°	2135	2091	1959	1783	1739
10°	2316	2071	1715	1536	1492
15°	3405	2066	1430	1294	1339
20°	8564	2264	1097	1097	1237
25°	39728	2807	847	992	1137
30°	126475	3899	658	937	1139
35°	219454	4738	535	910	1151
40°	255937	4752	401	916	1174
45°	262477	3349	434	992	1271
50°	244086	1876	341	1023	1467
55°	207438	994	382	1147	1644
60°	119815	263	439	1228	1798
65°	24438	0	519	1453	2024
70°	385	128	641	1667	2372
75°	339	169	678	1694	2881
80°	253	253	1010	2020	3283
85°	0	503	2013	2013	4026

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 262477 cd/sqm

TEST NUMBER: P1338092

CATALOG NUMBER: P3A05R30B2750DE010 E3A451WMH_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.8	0.4
10°-20°	2.4	1.0
20°-30°	13.5	5.8
30°-40°	63.0	26.9
40°-50°	89.1	38.1
50°-60°	54.8	23.4
60°-70°	8.4	3.6
70°-80°	1.3	0.6
80°-90°	0.7	0.3
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°	16.7	7.1
0°-40°	79.7	34.1
0°-60°	223.7	95.6
0°-90°	234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	9	9	9	9	9	
5°	10	10	9	8	8	1
15°	15	9	6	6	6	5
25°	164	12	4	4	5	101
35°	820	18	2	3	4	492
45°	846	11	1	3	4	642
55°	543	3	1	3	4	462
65°	47	0	1	3	4	85
75°	0	0	1	2	3	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1338092

CATALOG NUMBER: P3A05R30B2750DE010 E3A451WMH_3500K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
2.5°	9.3	9.3	9.5	9.5	9.3	9.5	9.5	9.5	9.1	8.9	8.5
5°	9.7	9.7	9.7	9.9	9.7	9.7	9.5	9.3	8.9	8.3	8.1
7.5°	10.1	10.1	9.9	10.1	9.9	9.9	9.5	9.1	8.5	7.9	7.5
10°	10.4	10.4	10.2	10.2	10.1	10.1	9.3	8.7	7.7	7.1	6.9
12.5°	11.6	11.6	11.4	11.2	10.8	10.6	9.1	8.1	6.9	6.3	6.1
15°	15.0	14.8	14.4	13.8	12.8	12.6	9.1	7.5	6.3	5.7	5.7
17.5°	20.5	20.3	19.7	18.1	16.4	15.8	9.1	6.7	5.5	5.1	5.1
20°	36.7	35.1	32.1	28.2	24.0	21.9	9.7	5.9	4.7	4.5	4.7
21°	47.9	46.3	42.6	36.1	28.8	26.4	10.1	5.7	4.5	4.3	4.7
22°	65.2	63.5	55.8	46.9	36.5	32.3	10.2	5.3	4.1	4.1	4.5
23°	91.1	88.1	75.1	60.9	45.5	39.6	10.6	5.1	3.9	4.1	4.3
24°	119.3	116.7	101.9	80.6	58.1	49.7	11.0	4.9	3.7	3.7	4.1
25°	164.2	161.2	135.0	101.7	73.7	59.7	11.6	4.5	3.5	3.5	4.1
26°	222.3	208.7	173.9	131.1	90.9	74.9	12.2	4.3	3.4	3.5	3.9
27°	277.5	266.3	227.1	168.1	112.4	92.1	13.0	4.1	3.2	3.4	3.9
28°	350.1	334.3	284.8	212.7	141.5	111.4	13.8	3.9	3.0	3.4	3.7
29°	431.3	409.2	349.5	262.7	174.4	133.1	14.6	3.7	2.8	3.2	3.7
30°	499.5	478.8	419.1	322.1	212.3	161.6	15.4	3.5	2.6	3.2	3.7
31°	579.5	548.2	475.8	372.3	244.8	190.2	16.2	3.2	2.4	3.0	3.5
32°	644.4	622.5	545.6	429.1	287.6	221.8	16.8	3.0	2.4	3.0	3.5
33°	707.0	677.7	603.4	483.5	326.2	254.1	17.3	2.8	2.2	2.8	3.5
34°	767.0	740.0	658.0	527.5	362.7	284.8	17.7	2.4	2.2	2.8	3.4
35°	819.8	788.4	706.1	570.4	400.1	312.8	17.7	2.2	2.0	2.6	3.4
36°	854.1	831.6	747.8	612.8	434.0	339.4	17.7	2.0	1.8	2.6	3.2
37°	883.5	857.2	781.4	645.3	459.1	360.7	17.7	1.8	1.8	2.6	3.2
38°	895.5	873.0	804.4	674.1	482.5	382.4	17.5	1.6	1.6	2.4	3.2
39°	900.2	880.1	821.8	694.8	499.9	397.0	17.1	1.4	1.6	2.4	3.2
40°	894.1	878.9	830.6	708.2	513.7	407.6	16.6	1.2	1.4	2.4	3.2
42.5°	868.9	858.8	828.7	721.6	525.5	415.5	14.4	0.8	1.4	2.2	3.2
45°	846.4	835.4	808.7	707.6	510.1	399.9	10.8	0.4	1.4	2.2	3.2
47.5°	802.8	795.9	775.0	672.0	476.4	364.9	7.7	0.2	1.2	2.0	3.0
50°	715.5	709.0	681.4	583.5	409.8	308.5	5.5	0.2	1.0	2.0	3.0
52.5°	637.3	630.4	590.7	485.1	314.8	226.1	3.5	0.2	1.0	2.0	3.0
55°	542.6	530.6	478.6	368.2	223.1	151.6	2.6	0.2	1.0	1.8	3.0
57.5°	401.7	384.2	337.7	251.1	128.5	82.2	1.4	0.2	1.0	1.8	3.0
60°	273.2	262.7	211.3	132.5	54.8	34.7	0.6	0.2	1.0	1.8	2.8
62.5°	165.6	152.4	106.2	56.4	23.7	15.8	0.0	0.4	1.0	1.8	2.8
65°	47.1	41.8	27.8	12.8	6.7	5.1	0.0	0.4	1.0	1.8	2.8
67.5°	1.6	1.6	1.6	1.4	1.0	1.0	0.2	0.4	1.0	1.8	2.6
70°	0.6	0.6	0.6	0.4	0.4	0.2	0.2	0.4	1.0	1.6	2.6
72.5°	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.4	0.8	1.4	2.4
75°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.4	2.0
77.5°	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.6	0.8	1.2	2.0
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.6	0.8	1.2	1.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
82.5°	0.2	0.2	0.2	0.0	0.0	0.0	0.2	0.6	0.8	0.8	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.8	0.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.6	0.6	0.6	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



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	9.1	9.1
2.5°	8.5	8.5
5°	7.9	7.9
7.5°	7.3	7.3
10°	6.7	6.7
12.5°	6.3	6.3
15°	5.7	5.9
17.5°	5.3	5.5
20°	5.1	5.3
21°	5.1	5.3
22°	4.9	5.1
23°	4.9	5.1
24°	4.7	4.9
25°	4.5	4.7
26°	4.5	4.7
27°	4.5	4.7
28°	4.3	4.7
29°	4.3	4.5
30°	4.3	4.5
31°	4.1	4.5
32°	4.1	4.5
33°	4.1	4.3
34°	3.9	4.3
35°	3.9	4.3
36°	3.9	4.3
37°	3.9	4.1
38°	3.9	4.3
39°	3.9	4.1
40°	3.9	4.1
42.5°	3.9	4.1
45°	3.9	4.1
47.5°	3.9	4.3
50°	3.9	4.3
52.5°	3.9	4.3
55°	3.9	4.3
57.5°	3.9	4.1
60°	3.9	4.1
62.5°	3.7	4.1
65°	3.7	3.9
67.5°	3.7	3.9
70°	3.5	3.7
72.5°	3.4	3.5
75°	3.0	3.4
77.5°	2.8	3.0
80°	2.4	2.6



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CANDELA DISTRIBUTION (continued):

	157.5°	180°
82.5°	2.0	2.0
85°	1.4	1.6
87.5°	0.8	0.8
90°	0.0	0.0

(END OF REPORT)