

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: P1336240

Luminaire Tested: P3A02R45B2750DE010 E3A451H_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A02R45B2750DE010 E3A451H_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 80CRI , E3A451H TRIM
Light Source: -
Ballast/Driver: -

Summary

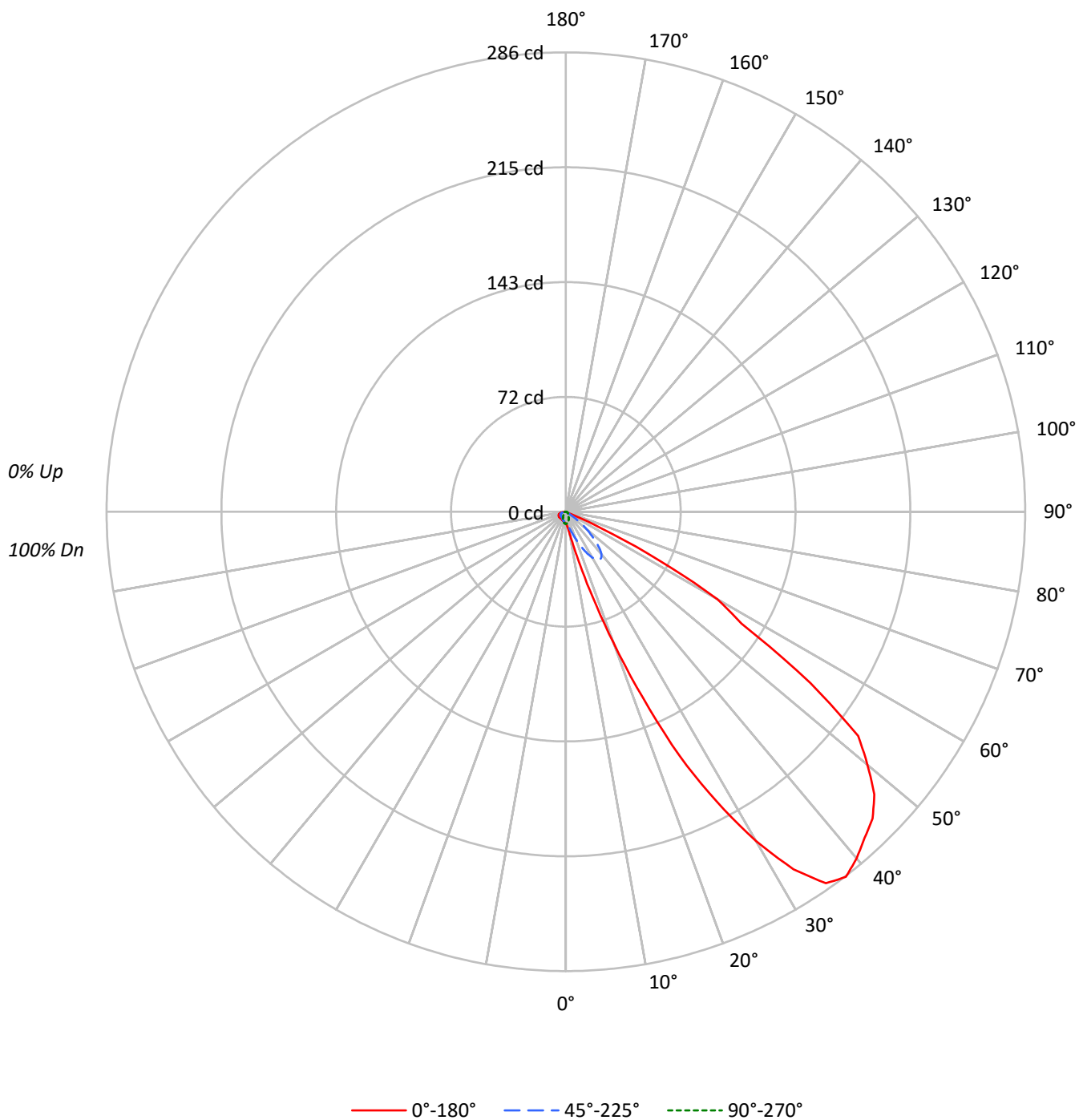
Lumens per Lamp: N/A
Luminaire Lumens: 128.0 lumens
Efficiency: N/A
Efficacy: 44.1 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.83 / 1.83
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 2.9
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: P1336240

CATALOG NUMBER: P3A02R45B2750DE010 E3A451H_5000K

Luminous Intensity Polar Plot





TEST NUMBER: P1336240

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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	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	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	40	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	38	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°	1623	1623	1623	1623	1623
5°	1937	1783	1607	1497	1497
10°	3095	2093	1514	1403	1403
15°	7673	2815	1362	1317	1362
20°	20232	4200	1190	1260	1330
25°	40648	6218	1016	1186	1307
30°	59908	8330	836	1139	1342
35°	75570	9771	696	1124	1392
40°	80608	9876	630	1174	1489
45°	83761	8218	589	1271	1613
50°	83648	5731	580	1365	1808
55°	71070	2561	612	1529	1988
60°	47759	526	614	1710	2281
65°	12660	208	623	1868	2594
70°	321	256	641	2052	2885
75°	254	254	593	2118	3304
80°	253	379	631	2273	3788
85°	252	503	1006	2516	3774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 85915 cd/sqm

TEST NUMBER: P1336240

CATALOG NUMBER: P3A02R45B2750DE010 E3A451H_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.6
10°-20°	3.6	2.8
20°-30°	14.9	11.6
30°-40°	31.4	24.5
40°-50°	38.7	30.3
50°-60°	29.0	22.7
60°-70°	7.5	5.8
70°-80°	1.5	1.2
80°-90°	0.6	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°	19.2	15.0
0°-40°	50.6	39.6
0°-60°	118.4	92.5
0°-90°	128.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	128.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	7	7	7	7	7	
5°	9	8	7	7	7	1
15°	34	12	6	6	6	12
25°	168	26	4	5	5	78
35°	282	36	3	4	5	172
45°	270	26	2	4	5	207
55°	186	7	2	4	5	161
65°	24	0	1	4	5	35
75°	0	0	1	2	4	0
85°	0	0	0	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1336240

CATALOG NUMBER: P3A02R45B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
2.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.7	7.6	7.4	7.2
5°	8.8	8.7	8.7	8.7	8.6	8.5	8.5	8.1	7.7	7.3	7.0
7.5°	10.4	10.4	10.3	10.0	9.9	9.7	9.5	8.7	7.7	7.1	6.7
10°	13.9	13.6	13.3	13.1	12.6	11.8	11.3	9.4	7.6	6.8	6.5
12.5°	20.7	21.2	20.1	19.0	17.6	16.2	14.5	10.7	7.6	6.5	6.1
15°	33.8	34.6	32.6	30.5	26.9	23.5	20.3	12.4	7.4	6.0	5.7
17.5°	55.3	56.3	52.9	47.9	42.3	35.5	29.7	14.7	7.2	5.6	5.4
20°	86.7	86.6	80.1	73.8	63.0	53.1	42.2	18.0	6.9	5.1	5.1
22.5°	125.3	125.8	117.7	106.5	91.2	75.2	57.9	21.8	6.5	4.7	4.8
25°	168.0	164.4	154.8	141.2	121.6	99.5	76.7	25.7	6.0	4.2	4.4
27.5°	203.5	200.0	189.1	172.9	151.9	125.6	95.8	29.6	5.5	3.8	4.1
30°	236.6	232.2	219.0	200.7	175.7	147.3	113.8	32.9	4.9	3.3	3.8
32.5°	263.9	259.9	244.9	223.7	196.4	165.9	129.0	35.4	4.2	3.0	3.6
35°	282.3	278.2	264.4	241.0	211.3	179.5	141.4	36.5	3.7	2.6	3.5
37.5°	286.5	284.3	274.5	252.6	221.6	188.2	149.3	36.2	3.1	2.4	3.3
40°	281.6	282.2	277.5	259.3	227.1	191.9	152.6	34.5	2.5	2.2	3.2
42.5°	275.4	276.8	276.5	262.1	229.4	192.1	151.2	31.1	2.0	2.0	3.1
45°	270.1	271.5	273.4	260.9	227.8	189.3	146.9	26.5	1.5	1.9	3.1
47.5°	260.5	262.0	264.7	251.6	219.8	182.2	139.1	21.6	1.1	1.8	3.0
50°	245.2	245.9	245.2	230.5	204.3	170.8	126.4	16.8	0.7	1.7	3.0
52.5°	229.4	227.9	221.8	203.2	179.8	152.7	110.4	12.0	0.5	1.6	2.9
55°	185.9	183.6	179.1	167.6	154.3	130.5	89.3	6.7	0.5	1.6	2.7
57.5°	129.6	130.8	132.4	130.1	124.0	102.8	67.8	3.0	0.5	1.5	2.7
60°	108.9	107.9	108.0	106.5	96.4	75.0	46.6	1.2	0.5	1.4	2.6
62.5°	65.0	65.8	67.2	67.5	57.4	41.9	24.4	0.5	0.5	1.3	2.5
65°	24.4	25.6	22.4	19.5	15.4	11.3	5.7	0.4	0.6	1.2	2.3
67.5°	0.7	0.8	1.1	1.0	1.0	0.8	0.6	0.4	0.6	1.1	2.2
70°	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	1.0	2.0
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.8	1.8
75°	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.7	1.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.6	1.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.4	0.5	1.1
82.5°	0.2	0.2	0.2	0.1	0.2	0.2	0.2	0.2	0.4	0.4	0.8
85°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.4	0.5
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.2	0.3	0.3	0.3
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: P1336240

CATALOG NUMBER: P3A02R45B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (continued):

	135°	157.5°	180°
0°	7.4	7.4	7.4
2.5°	7.0	7.0	7.0
5°	6.8	6.8	6.8
7.5°	6.6	6.6	6.6
10°	6.3	6.3	6.3
12.5°	6.1	6.1	6.2
15°	5.8	6.0	6.0
17.5°	5.6	5.8	5.9
20°	5.4	5.6	5.7
22.5°	5.1	5.4	5.6
25°	4.9	5.3	5.4
27.5°	4.7	5.2	5.4
30°	4.5	5.1	5.3
32.5°	4.3	5.0	5.2
35°	4.2	5.0	5.2
37.5°	4.2	4.9	5.2
40°	4.1	4.9	5.2
42.5°	4.1	4.9	5.2
45°	4.1	4.9	5.2
47.5°	4.0	4.9	5.3
50°	4.0	5.0	5.3
52.5°	4.0	5.0	5.3
55°	4.0	5.0	5.2
57.5°	3.9	4.9	5.2
60°	3.9	4.9	5.2
62.5°	3.7	4.8	5.1
65°	3.6	4.7	5.0
67.5°	3.4	4.5	4.8
70°	3.2	4.2	4.5
72.5°	2.9	4.0	4.3
75°	2.5	3.7	3.9
77.5°	2.2	3.3	3.5
80°	1.8	2.7	3.0
82.5°	1.4	2.1	2.2
85°	1.0	1.4	1.5
87.5°	0.4	0.6	0.7
90°	0.0	0.0	0.0

(END OF REPORT)