

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: P1337586

Luminaire Tested: P3A05R25B2750DE010 E3A451WMH_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-75)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R25B2750DE010 E3A451WMH_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R25 optic, 5000K CCT AND, 80CRI , E3A451WMH TRIM
Light Source: -
Ballast/Driver: -

Summary

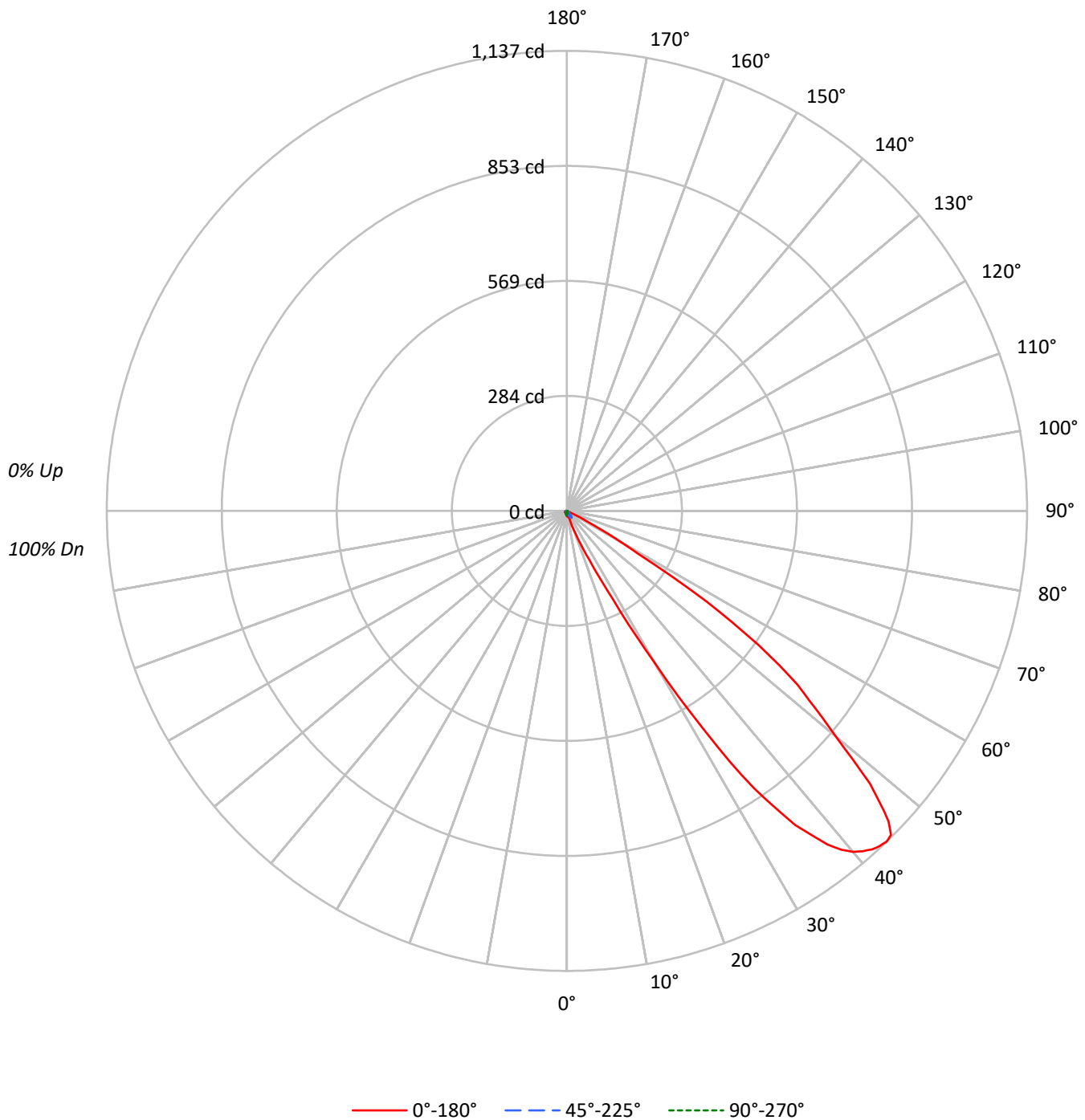
Lumens per Lamp: N/A
Luminaire Lumens: 237.0 lumens
Efficiency: N/A
Efficacy: 40.2 lumens/watt
Spacing Criteria (0/90/45): 3.65 / 0.61 / 1.37
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	101	97	100	97	94	96	94	92	92	91	89	87			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73			
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42			
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35			
7	62	48	39	32	60	47	39	32	46	38	32	44	37	32	43	36	32	29			
8	57	43	34	27	55	42	33	27	40	33	27	39	32	27	38	32	27	25			
9	52	38	29	23	51	37	29	23	36	28	23	35	28	23	34	27	23	21			
10	48	34	25	20	47	33	25	20	32	25	20	31	24	19	30	24	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2653	2653	2653	2653	2653
5°	3038	2884	2575	2289	2245
10°	3028	2739	2182	1915	1915
15°	3360	2361	1703	1612	1703
20°	11878	2334	1307	1353	1517
25°	34163	2976	1065	1258	1452
30°	109004	4583	836	1215	1469
35°	238728	5407	723	1178	1499
40°	314904	4895	601	1202	1603
45°	351199	3442	589	1302	1737
50°	295598	1774	580	1365	1910
55°	221010	726	573	1529	2141
60°	68416	175	570	1667	2368
65°	5863	0	675	1712	2594
70°	385	128	641	1988	2949
75°	339	169	847	2118	3389
80°	253	253	1263	2399	3915
85°	503	503	2013	2516	4277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 351199 cd/sqm

TEST NUMBER: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.1	0.5
10°-20°	2.8	1.2
20°-30°	13.1	5.5
30°-40°	63.1	26.6
40°-50°	99.0	41.8
50°-60°	50.7	21.4
60°-70°	4.8	2.0
70°-80°	1.6	0.7
80°-90°	0.8	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°	17.0	7.2
0°-40°	80.1	33.8
0°-60°	229.8	97.0
0°-90°	237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	237.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	12	12	12	12	12	
5°	14	13	12	10	10	1
15°	15	10	8	7	8	6
25°	141	12	4	5	6	88
35°	892	20	3	4	6	541
45°	1132	11	2	4	6	829
55°	578	2	2	4	6	481
65°	11	0	1	3	5	35
75°	0	0	1	2	4	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	13.1	12.9	12.9
5°	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.6	13.6	13.6	13.1
7.5°	14.0	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.6	13.6	12.9
10°	13.6	13.6	13.6	13.6	13.3	13.3	13.3	13.1	13.1	13.1	12.3
12.5°	13.6	13.6	13.6	13.6	13.3	13.3	13.1	13.1	12.9	12.7	11.3
15°	14.8	14.8	14.8	14.6	14.4	14.2	14.0	13.8	13.6	13.1	10.4
17.5°	21.7	21.1	20.9	20.0	19.0	17.9	17.1	16.3	15.4	14.8	10.0
20°	50.9	50.7	49.6	47.1	44.4	41.3	38.2	34.6	29.6	26.3	10.0
22.5°	88.2	87.0	85.1	83.2	78.4	72.8	66.9	60.3	53.8	46.9	10.6
25°	141.2	144.1	137.9	132.8	124.5	114.3	103.2	94.1	82.4	71.5	12.3
27.5°	245.5	247.3	235.0	218.8	199.4	177.9	157.0	141.4	121.8	103.9	15.4
30°	430.5	432.3	411.7	377.1	337.0	301.8	254.0	212.1	173.5	143.7	18.1
31°	537.2	522.6	498.7	465.1	414.4	361.2	303.9	253.2	204.4	165.2	19.0
32°	630.0	628.8	600.8	550.0	499.1	433.4	362.3	296.1	236.3	186.9	19.6
33°	739.5	731.2	691.8	643.8	576.4	510.3	418.6	343.1	269.0	211.1	20.0
34°	827.3	804.8	788.5	733.7	662.6	578.3	480.1	392.7	309.9	234.4	20.2
35°	891.8	887.0	855.3	804.2	731.8	645.7	546.4	444.2	344.1	261.5	20.2
36°	960.0	945.2	914.3	868.0	797.5	708.5	597.1	488.9	383.9	285.9	20.0
37°	1002.7	994.0	963.3	915.6	846.5	761.4	653.8	536.0	415.6	310.3	19.6
38°	1046.7	1029.0	998.8	953.1	885.3	805.4	694.9	572.3	444.8	331.8	19.0
39°	1077.2	1058.8	1028.0	982.5	916.2	836.9	727.4	603.1	470.3	347.9	18.1
40°	1100.1	1082.4	1051.1	1004.4	938.9	861.7	754.5	630.5	491.6	361.8	17.1
41°	1114.3	1097.8	1066.8	1020.2	954.6	875.9	772.3	648.2	506.0	371.2	16.1
42°	1126.2	1109.3	1077.6	1030.1	964.1	888.0	783.1	659.4	515.8	376.0	15.2
43°	1132.9	1116.0	1085.1	1036.5	970.0	893.7	789.0	664.7	519.1	375.4	13.8
44°	1136.6	1119.1	1088.0	1039.4	972.5	895.1	789.4	663.6	516.8	370.4	12.5
45°	1132.5	1115.1	1085.1	1036.5	968.1	890.5	785.2	658.0	508.0	360.6	11.1
46°	1105.3	1092.0	1064.5	1019.8	954.3	878.8	774.6	647.1	494.5	348.5	9.4
47°	1057.6	1046.9	1020.2	987.1	927.9	857.4	755.0	626.5	475.5	330.4	7.5
48°	1007.7	992.1	967.3	933.3	883.2	818.8	722.6	596.3	446.7	306.6	6.7
49°	934.1	924.9	903.0	865.1	823.6	766.9	677.0	557.5	411.5	280.7	5.8
50°	866.5	860.3	829.6	801.7	757.7	704.7	615.0	506.4	367.7	248.6	5.2
51°	813.8	806.3	784.2	749.3	702.4	640.9	556.4	440.0	317.4	210.4	4.2
52°	758.7	754.5	734.9	699.1	653.0	591.7	499.5	383.7	268.6	177.9	3.3
53°	713.7	707.6	683.6	651.7	601.9	538.5	437.8	331.4	227.5	149.5	2.9
54°	648.0	645.5	630.0	596.7	542.7	473.6	381.9	279.0	189.8	126.8	2.5
55°	578.1	569.8	554.1	527.6	478.0	413.6	317.2	231.3	153.5	106.8	1.9
56°	493.0	492.6	464.7	442.6	398.5	330.1	253.4	180.6	124.7	89.1	1.7
57°	411.7	398.5	371.6	349.7	302.4	250.5	188.1	135.4	97.6	72.2	1.3
58°	304.5	297.6	290.5	258.4	214.6	177.5	134.3	95.1	72.2	55.1	0.8
59°	206.7	206.5	198.1	173.7	148.5	110.5	83.8	64.7	49.6	40.5	0.6
60°	156.0	152.2	135.6	119.5	93.4	69.9	49.6	38.2	30.9	26.1	0.4
62.5°	54.6	56.7	49.8	41.3	31.5	25.9	19.8	16.1	13.1	10.6	0.0
65°	11.3	12.3	10.6	10.0	7.9	6.9	6.0	5.2	4.4	3.8	0.0



TEST NUMBER: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.5	1.3	1.3	1.3	1.0	1.0	1.0	1.0	0.8	0.8	0.2
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.2
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.2	0.2	0.2	0.2	0.2
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
85°	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2
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: P1337586

CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	12.1	12.1	12.1	12.1	12.1	12.1
2.5°	12.7	12.3	11.7	11.5	11.3	11.3
5°	12.5	11.7	11.1	10.4	10.2	10.2
7.5°	11.9	10.8	10.0	9.6	9.4	9.2
10°	11.3	9.8	9.0	8.6	8.6	8.6
12.5°	10.0	8.8	7.9	7.7	7.9	7.9
15°	9.0	7.5	7.1	7.1	7.3	7.5
17.5°	7.7	6.7	6.3	6.5	6.7	6.9
20°	6.9	5.6	5.6	5.8	6.5	6.5
22.5°	6.0	5.0	5.0	5.6	6.0	6.3
25°	5.4	4.4	4.6	5.2	5.8	6.0
27.5°	4.6	3.8	4.2	5.0	5.6	5.8
30°	4.0	3.3	4.0	4.8	5.4	5.8
31°	3.8	3.1	4.0	4.6	5.4	5.8
32°	3.3	3.1	3.8	4.6	5.4	5.6
33°	3.1	2.9	3.8	4.6	5.4	5.6
34°	2.9	2.7	3.5	4.6	5.4	5.6
35°	2.5	2.7	3.5	4.4	5.2	5.6
36°	2.3	2.5	3.5	4.4	5.2	5.6
37°	2.1	2.5	3.3	4.4	5.2	5.6
38°	1.9	2.3	3.3	4.4	5.2	5.6
39°	1.7	2.3	3.1	4.4	5.2	5.6
40°	1.5	2.1	3.1	4.2	5.2	5.6
41°	1.5	2.1	3.1	4.2	5.2	5.6
42°	1.3	2.1	3.1	4.2	5.2	5.6
43°	1.0	1.9	3.1	4.2	5.2	5.6
44°	0.8	1.9	2.9	4.2	5.2	5.6
45°	0.8	1.9	2.9	4.2	5.2	5.6
46°	0.6	1.7	2.9	4.2	5.2	5.6
47°	0.4	1.7	2.9	4.0	5.2	5.6
48°	0.4	1.7	2.9	4.0	5.2	5.6
49°	0.4	1.7	2.7	4.0	5.2	5.6
50°	0.4	1.7	2.7	4.0	5.2	5.6
51°	0.2	1.5	2.7	4.0	5.2	5.6
52°	0.2	1.5	2.7	4.0	5.2	5.8
53°	0.2	1.5	2.7	4.0	5.2	5.6
54°	0.2	1.5	2.5	4.0	5.2	5.6
55°	0.2	1.5	2.5	4.0	5.2	5.6
56°	0.2	1.3	2.5	3.8	5.2	5.6
57°	0.4	1.3	2.5	3.8	5.2	5.4
58°	0.4	1.3	2.5	3.8	5.0	5.4
59°	0.4	1.3	2.5	3.8	5.0	5.4
60°	0.4	1.3	2.3	3.8	5.0	5.4
62.5°	0.4	1.3	2.3	3.5	4.8	5.2
65°	0.4	1.3	2.1	3.3	4.8	5.0



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CATALOG NUMBER: P3A05R25B2750DE010 E3A451WMH_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	2.1	3.1	4.6	4.8
70°	0.6	1.0	1.9	3.1	4.4	4.6
72.5°	0.6	1.0	1.9	2.7	4.0	4.4
75°	0.6	1.0	1.7	2.5	3.8	4.0
77.5°	0.6	1.0	1.5	2.3	3.3	3.5
80°	0.8	1.0	1.3	1.9	2.9	3.1
82.5°	0.8	1.0	1.0	1.5	2.3	2.5
85°	0.6	0.8	0.8	1.0	1.5	1.7
87.5°	0.6	0.8	0.6	0.4	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)