

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: P1337066

Luminaire Tested: P3A05R20B2750DE010 E3A451H_5000K

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1337066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-74)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R20B2750DE010 E3A451H_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 5000K CCT AND, 80CRI , E3A451H TRIM
Light Source: -
Ballast/Driver: -

Summary

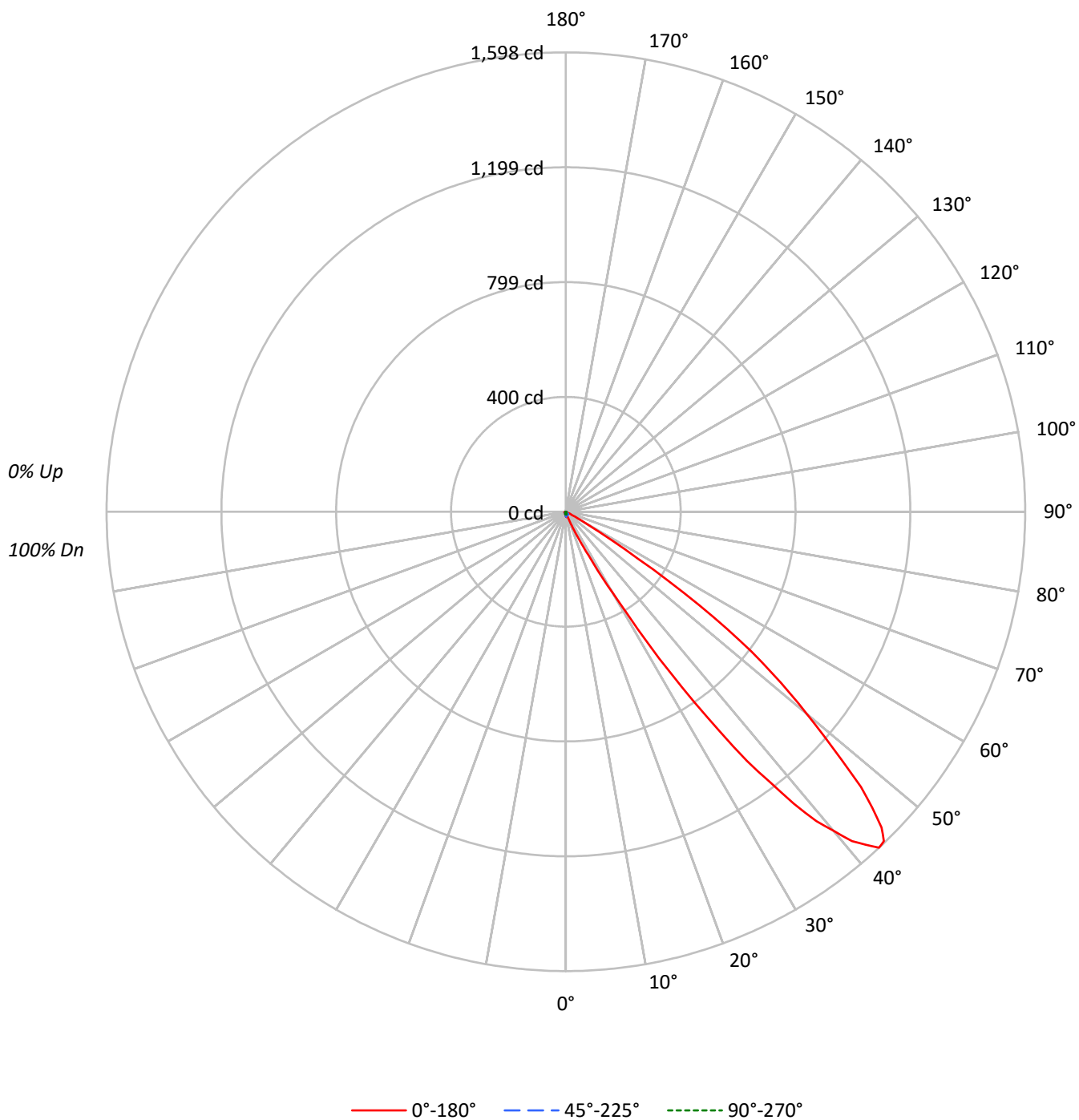
Lumens per Lamp: N/A
Luminaire Lumens: 222.0 lumens
Efficiency: N/A
Efficacy: 37.6 lumens/watt
Spacing Criteria (0/90/45): 3.39 / 0.51 / 1.14
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

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: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_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	65	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	38	52	44	38	50	43	38	48	42	37	35			
7	62	48	39	32	60	47	38	32	46	38	32	44	37	32	43	36	31	29			
8	57	42	33	27	55	42	33	27	40	33	27	39	32	27	38	31	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	19	31	24	19	30	24	19	17			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3377	3377	3377	3377	3377
5°	3940	3676	3170	2751	2663
10°	3897	3340	2516	2138	2093
15°	3405	2565	1839	1703	1793
20°	5064	2147	1353	1470	1610
25°	21800	2226	1065	1307	1573
30°	82468	2684	886	1266	1545
35°	249971	3239	830	1285	1633
40°	414519	3235	716	1374	1746
45°	481817	2202	651	1427	1892
50°	373992	1194	648	1501	2149
55°	216461	803	650	1682	2332
60°	36620	175	570	1754	2544
65°	2802	0	675	1972	2906
70°	385	0	833	2116	3334
75°	339	169	847	2457	3897
80°	253	253	1263	2652	4420
85°	503	503	2013	2516	4780

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 481817 cd/sqm

TEST NUMBER: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.3	0.6
10°-20°	2.8	1.3
20°-30°	8.9	4.0
30°-40°	56.6	25.5
40°-50°	103.6	46.7
50°-60°	42.6	19.2
60°-70°	3.6	1.6
70°-80°	1.8	0.8
80°-90°	0.8	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°	13.0	5.8
0°-40°	69.6	31.3
0°-60°	215.8	97.2
0°-90°	222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	222.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	18	17	14	12	12	2
15°	15	11	8	8	8	5
25°	90	9	4	5	6	59
35°	934	12	3	5	6	591
45°	1554	7	2	5	6	1116
55°	566	2	2	4	6	495
65°	5	0	1	4	6	18
75°	0	0	1	3	5	0
85°	0	0	1	1	2	0
90°	0	0	0	0	0	

TEST NUMBER: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
2.5°	16.9	16.9	16.9	16.7	16.7	16.9	16.7	16.7	16.7	16.7	16.5
5°	17.9	17.9	17.9	17.9	17.9	17.9	17.9	17.7	17.7	17.5	16.7
7.5°	18.4	18.4	18.4	18.4	18.2	18.2	18.2	18.2	17.9	17.7	16.3
10°	17.5	17.5	17.5	17.3	17.3	17.3	17.1	17.1	16.9	16.7	15.0
12.5°	15.9	15.9	15.9	15.9	15.6	15.6	15.4	15.4	15.2	15.0	13.1
15°	15.0	15.0	15.0	14.8	14.8	14.6	14.4	14.2	14.0	13.6	11.3
17.5°	16.3	16.3	16.1	16.1	15.6	15.2	15.0	14.4	14.0	13.4	10.0
20°	21.7	21.9	21.1	20.4	20.0	18.8	18.2	17.1	16.3	15.2	9.2
22.5°	43.8	43.0	41.5	39.2	36.5	34.2	30.0	26.7	24.4	21.3	9.0
25°	90.1	89.3	85.3	82.0	73.6	67.2	58.2	50.9	43.4	36.1	9.2
27.5°	171.3	165.7	164.6	149.4	137.7	121.0	103.7	89.1	75.7	60.9	9.8
30°	325.7	319.2	296.5	273.5	242.0	206.3	172.3	140.6	114.1	90.1	10.6
31°	413.3	419.6	392.8	346.7	300.2	254.5	208.0	167.7	133.5	103.7	11.1
32°	543.3	515.9	487.8	440.4	372.8	314.4	256.0	198.0	152.9	118.3	11.5
33°	666.1	650.1	607.1	548.1	466.9	384.9	309.2	233.7	176.7	136.0	11.7
34°	797.2	779.4	744.6	659.9	570.8	463.4	362.4	274.8	205.1	153.3	11.9
35°	933.8	926.3	859.1	785.7	676.2	546.6	426.4	319.8	232.8	169.2	12.1
36°	1071.3	1047.1	994.5	887.3	773.0	623.6	493.6	361.8	261.0	188.0	12.1
37°	1174.8	1169.4	1099.7	995.2	860.8	705.8	551.6	408.3	289.4	204.0	12.1
38°	1288.9	1267.4	1196.7	1090.3	943.4	781.1	612.3	448.8	316.3	218.6	11.9
39°	1385.1	1353.2	1281.8	1176.7	1015.6	838.3	660.5	488.0	340.1	230.7	11.7
40°	1448.1	1426.0	1351.5	1233.2	1081.1	892.3	709.3	520.3	357.8	239.9	11.3
41°	1517.6	1480.8	1407.2	1288.3	1128.7	939.9	740.0	541.6	371.6	246.0	10.8
42°	1559.1	1529.0	1441.6	1325.2	1162.7	967.0	765.0	557.9	379.9	249.1	10.0
43°	1597.9	1557.0	1471.9	1346.7	1185.2	986.2	776.5	565.4	381.8	249.1	9.0
44°	1592.7	1553.9	1465.6	1349.6	1190.2	991.8	781.3	565.6	378.9	246.0	7.9
45°	1553.7	1515.1	1435.6	1324.2	1172.3	980.8	771.7	557.2	370.7	240.5	7.1
46°	1482.1	1443.7	1382.8	1281.6	1138.9	955.7	749.4	539.1	357.2	231.8	6.3
47°	1404.3	1366.9	1304.6	1213.0	1081.9	911.1	717.1	513.6	338.2	219.1	5.6
48°	1291.4	1268.0	1205.5	1127.2	1002.9	841.2	660.3	472.1	312.7	202.6	4.8
49°	1191.7	1167.1	1112.2	1028.1	899.8	759.8	592.5	421.6	279.6	184.2	4.2
50°	1096.3	1074.9	1024.2	929.2	806.8	661.6	500.9	358.0	237.8	161.5	3.5
51°	1003.1	987.0	935.3	848.1	723.7	586.0	433.9	298.1	196.5	133.9	3.3
52°	909.4	907.5	851.4	763.2	643.0	510.7	368.9	251.6	166.7	112.5	3.1
53°	808.6	796.5	747.5	668.2	552.9	432.3	312.7	212.2	143.5	95.8	2.7
54°	693.9	680.3	627.8	556.2	451.7	354.0	252.0	171.5	119.5	80.9	2.5
55°	566.2	543.1	504.9	431.4	352.8	270.2	194.6	135.8	95.6	67.4	2.1
56°	429.6	406.4	384.9	330.9	258.9	201.5	145.0	104.1	74.7	53.2	1.9
57°	298.8	297.5	262.2	220.7	173.2	137.3	99.3	73.4	52.8	41.3	1.5
58°	193.8	187.3	164.8	140.8	113.3	85.7	63.8	49.9	35.9	28.2	1.3
59°	135.8	122.9	110.8	93.9	71.4	54.0	41.1	31.9	24.8	19.6	0.8
60°	83.5	80.7	72.6	57.2	46.3	38.2	30.7	23.6	18.2	14.0	0.4
62.5°	23.8	24.2	21.9	19.4	16.7	14.4	12.9	11.1	9.2	7.3	0.0
65°	5.4	5.2	5.6	5.2	4.8	4.8	4.2	3.8	3.3	3.1	0.0



TEST NUMBER: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	1.7	1.7	1.5	1.5	1.5	1.3	1.3	1.0	1.0	0.8	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.4	0.4	0.4	0.2	0.2	0.0
72.5°	0.6	0.6	0.6	0.4	0.4	0.4	0.4	0.4	0.2	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	0.2	0.4	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	0.2
85°	0.2	0.2	0.2	0.2	0.0	0.0	0.2	0.2	0.2	0.0	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: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.4	15.4	15.4	15.4	15.4	15.4
2.5°	16.1	15.2	14.6	14.0	13.8	13.8
5°	15.6	14.4	13.1	12.5	12.1	12.1
7.5°	14.4	12.9	11.7	11.1	10.8	10.8
10°	12.9	11.3	10.0	9.6	9.6	9.4
12.5°	11.3	9.6	8.8	8.6	8.6	8.6
15°	9.4	8.1	7.5	7.5	7.7	7.9
17.5°	7.9	6.7	6.5	6.9	7.3	7.3
20°	6.7	5.8	5.8	6.3	6.7	6.9
22.5°	5.6	5.0	5.2	5.8	6.5	6.7
25°	5.0	4.4	4.8	5.4	6.1	6.5
27.5°	4.2	4.0	4.4	5.2	6.1	6.3
30°	3.5	3.5	4.2	5.0	5.8	6.1
31°	3.3	3.3	4.2	5.0	5.8	6.1
32°	3.1	3.3	4.0	5.0	5.8	6.1
33°	2.9	3.1	4.0	4.8	5.8	6.1
34°	2.7	3.1	4.0	4.8	5.8	6.1
35°	2.5	3.1	4.0	4.8	5.8	6.1
36°	2.3	2.9	3.8	4.8	5.8	6.1
37°	2.1	2.9	3.8	4.8	5.8	6.1
38°	1.9	2.7	3.8	4.8	5.8	6.1
39°	1.9	2.7	3.5	4.8	5.6	6.1
40°	1.7	2.5	3.5	4.8	5.6	6.1
41°	1.5	2.5	3.5	4.6	5.6	6.1
42°	1.3	2.3	3.3	4.6	5.6	6.1
43°	1.0	2.3	3.3	4.6	5.6	6.1
44°	1.0	2.1	3.3	4.6	5.6	6.1
45°	0.8	2.1	3.3	4.6	5.6	6.1
46°	0.6	2.1	3.3	4.6	5.6	6.1
47°	0.6	1.9	3.1	4.6	5.6	6.1
48°	0.4	1.9	3.1	4.6	5.6	6.1
49°	0.4	1.9	3.1	4.6	5.6	6.3
50°	0.4	1.9	3.1	4.4	5.6	6.3
51°	0.2	1.9	3.1	4.4	5.6	6.3
52°	0.2	1.9	2.9	4.4	5.8	6.3
53°	0.2	1.7	2.9	4.4	5.8	6.3
54°	0.2	1.7	2.9	4.4	5.8	6.1
55°	0.2	1.7	2.9	4.4	5.6	6.1
56°	0.2	1.5	2.9	4.4	5.6	6.1
57°	0.2	1.5	2.7	4.2	5.6	5.8
58°	0.2	1.5	2.7	4.2	5.6	5.8
59°	0.2	1.5	2.7	4.2	5.4	5.8
60°	0.4	1.3	2.5	4.0	5.4	5.8
62.5°	0.4	1.3	2.5	4.0	5.2	5.6
65°	0.4	1.3	2.3	3.8	5.2	5.6



TEST NUMBER: P1337066

CATALOG NUMBER: P3A05R20B2750DE010 E3A451H_5000K

CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	0.4	1.0	2.1	3.5	5.0	5.4
70°	0.4	1.3	2.1	3.3	4.8	5.2
72.5°	0.6	1.0	1.9	3.1	4.6	5.0
75°	0.6	1.0	1.9	2.9	4.4	4.6
77.5°	0.8	1.0	1.7	2.5	4.0	4.2
80°	0.8	1.0	1.5	2.1	3.3	3.5
82.5°	0.8	1.0	1.0	1.7	2.5	2.7
85°	0.6	0.8	0.8	1.0	1.7	1.9
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)