

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: P1319395

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQPHL1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R20B2750DE010 E3SQPHL1MW_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQPHL1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

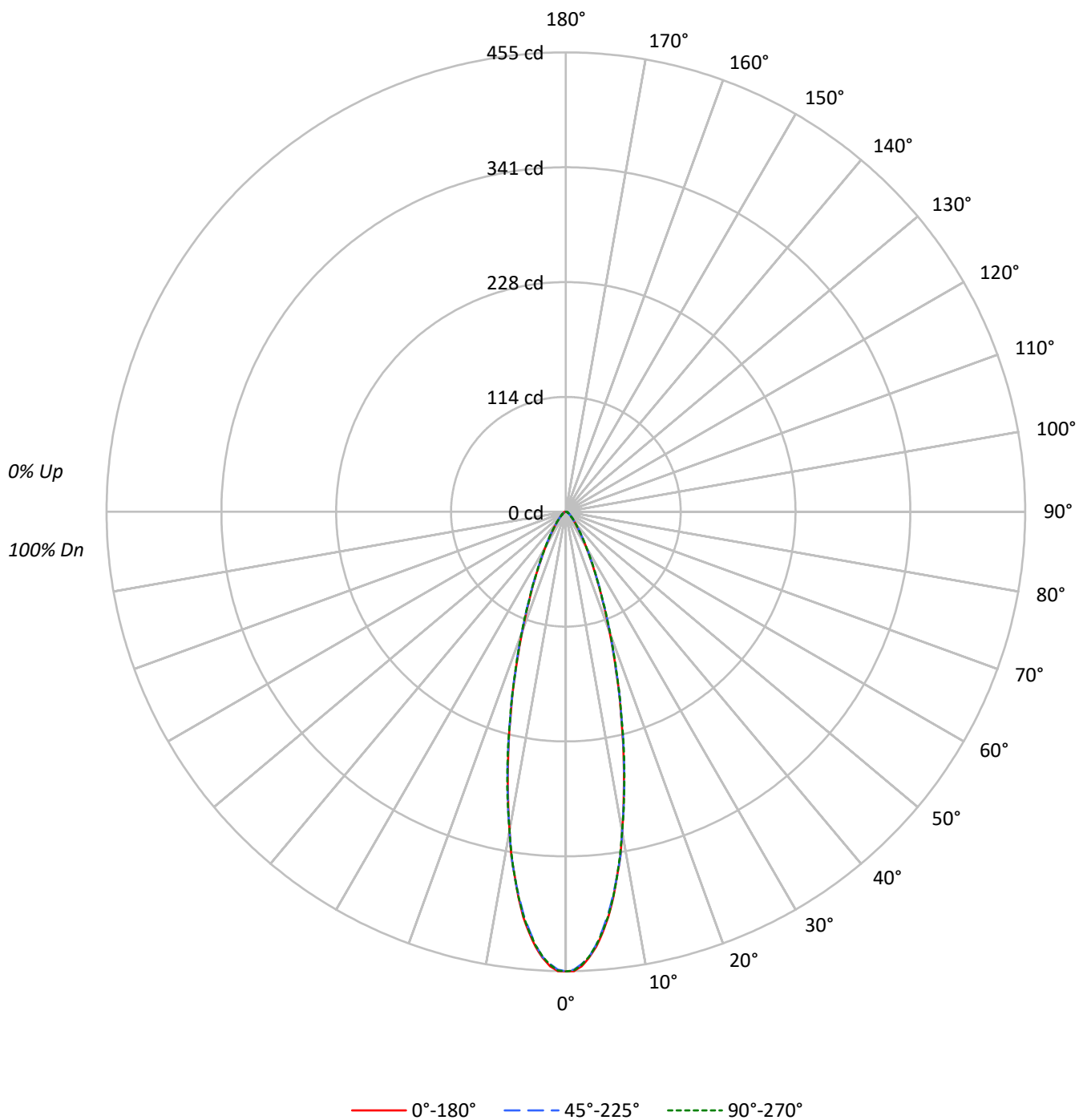
Lumens per Lamp: N/A
Luminaire Lumens: 160.0 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1319395

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQPHL1MW_3000K

Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20				20				20
RC	80				70				50				30				10				0				0				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				0				0
RCR																													
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100	100	100	100	100	100	100	100	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94	94	94	94	94	94	94	94	94	94	94	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89	89	89	89	89	89	89	89	89	89	89	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84	84	84	84	84	84	84	84	84	84	84	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79	79	79	79	79	79	79	79	79	79	79	79
5	96	88	83	79	94	87	82	79	86	81	78	84	80	77	82	79	77	75	75	75	75	75	75	75	75	75	75	75	75
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72	72	72	72	72	72	72	72	72	72	72	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69	69	69	69	69	69	69	69	69	69	69	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66	66	66	66	66	66	66	66	66	66	66	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63	63	63	63	63	63	63	63	63	63	63	63
10	79	71	66	62	78	70	66	62	70	65	62	69	65	62	68	65	62	61	61	61	61	61	61	61	61	61	61	61	61

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	78413	78413	78413
5°	72333	71918	72160
10°	56136	56206	56206
15°	37942	38120	38120
20°	23038	23331	23441
25°	13511	13701	13663
30°	7895	8034	8074
35°	4815	4941	4941
40°	3125	3170	3215
45°	2192	2241	2289
50°	1608	1661	1661
55°	1261	1321	1321
60°	1102	1102	1171
65°	978	978	1060
70°	906	906	906
75°	799	799	799
80°	595	595	793
85°	395	395	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 2289 cd/sqm

TEST NUMBER: P1319395

CATALOG NUMBER: P3SQAS02R20B2750DE010 E3SQPHL1MW_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	22.9
10°-20°	58.8	36.7
20°-30°	34.0	21.3
30°-40°	15.3	9.5
40°-50°	7.3	4.5
50°-60°	4.0	2.5
60°-70°	2.4	1.5
70°-80°	1.3	0.8
80°-90°	0.3	0.2
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°	129.5	81.0
0°-40°	144.8	90.5
0°-60°	156.0	97.5
0°-90°	160.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	160.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	418	417	416	417	417	37
15°	213	213	214	213	214	59
25°	71	71	72	72	72	34
35°	23	23	24	24	24	15
45°	9	9	9	9	9	7
55°	4	4	4	4	4	4
65°	2	2	2	2	3	2
75°	1	1	1	1	1	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	455.3	455.3	455.3	455.3	455.3
1°	455.1	453.9	453.5	453.1	454.3
2°	450.5	449.1	448.3	448.7	448.9
3°	442.3	441.5	441.5	440.9	441.3
4°	431.8	430.2	430.2	430.4	430.4
5°	418.4	417.0	416.0	416.8	417.4
6°	403.5	401.7	400.9	401.1	402.5
7°	385.2	382.8	383.2	384.2	384.2
8°	364.4	364.2	364.6	364.2	364.6
9°	345.3	342.5	344.9	342.9	343.9
10°	321.0	320.8	321.4	322.0	321.4
12.5°	265.6	266.6	267.0	266.2	268.0
15°	212.8	212.8	213.8	212.8	213.8
17.5°	165.6	165.4	166.2	165.4	166.6
20°	125.7	127.1	127.3	127.3	127.9
22.5°	94.8	94.8	95.6	95.8	95.4
25°	71.1	71.1	72.1	71.5	71.9
27.5°	52.6	53.0	53.8	54.2	54.2
30°	39.7	39.9	40.4	40.6	40.6
32.5°	29.9	30.3	30.7	30.9	31.1
35°	22.9	23.1	23.5	23.7	23.5
37.5°	17.5	17.7	18.1	18.3	18.3
40°	13.9	13.9	14.1	14.3	14.3
42.5°	11.0	11.2	11.2	11.4	11.4
45°	9.0	9.0	9.2	9.2	9.4
47.5°	7.2	7.2	7.4	7.6	7.6
50°	6.0	6.0	6.2	6.2	6.2
52.5°	5.0	5.0	5.2	5.2	5.2
55°	4.2	4.2	4.4	4.4	4.4
57.5°	3.6	3.6	3.8	3.8	3.8
60°	3.2	3.2	3.2	3.2	3.4
62.5°	2.8	2.8	2.8	2.8	2.8
65°	2.4	2.4	2.4	2.4	2.6
67.5°	2.0	2.0	2.0	2.0	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.4	1.4	1.4	1.6	1.6
75°	1.2	1.2	1.2	1.2	1.2
77.5°	1.0	1.0	1.0	1.0	1.0
80°	0.6	0.6	0.6	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)