

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: P1319390

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQPHL1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319390
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 E3SQPHL1MMS_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 3000K CCT AND, 90CRI , E3SQPHL1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

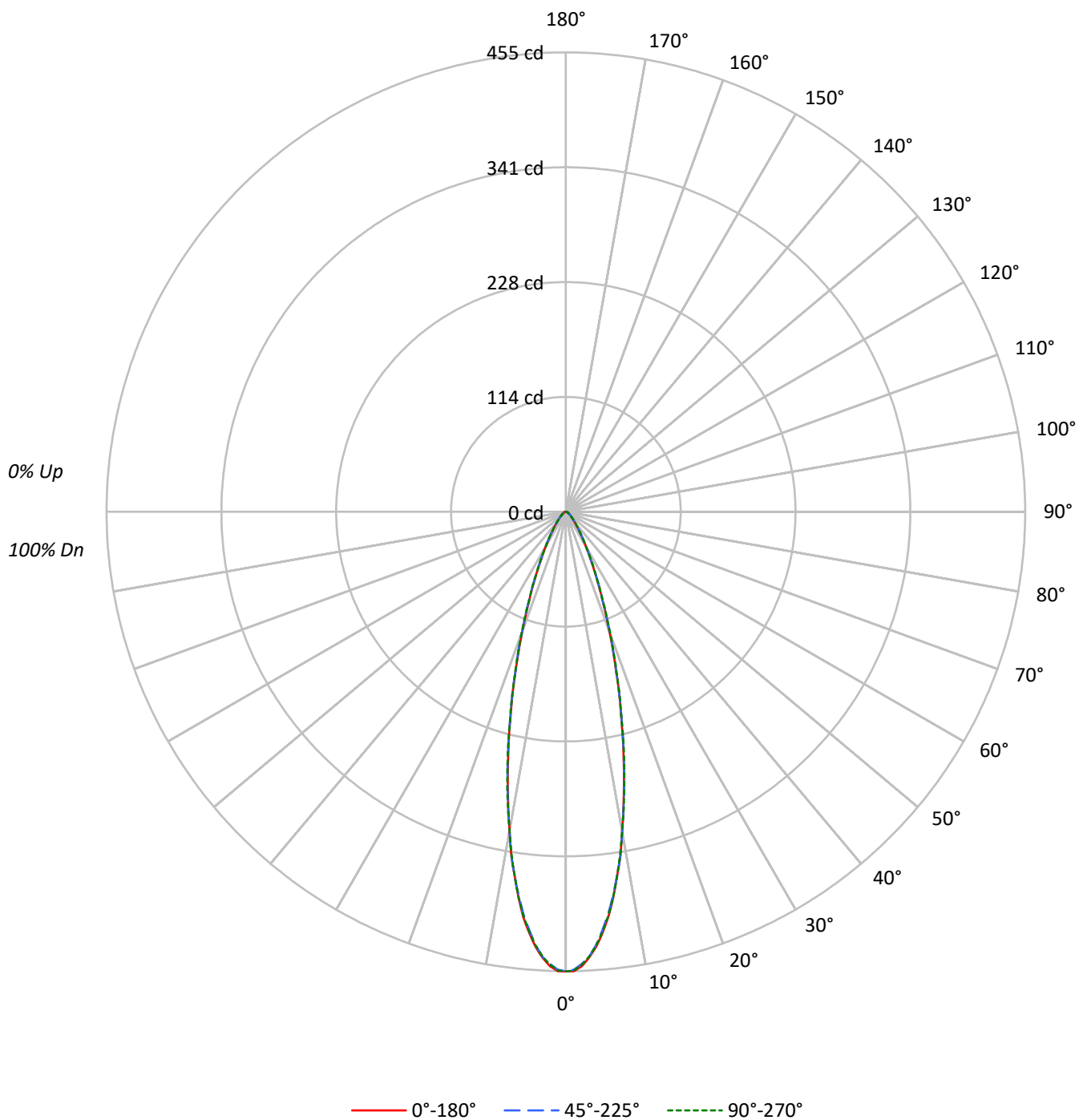
Lumens per Lamp: N/A
Luminaire Lumens: 160.0 lumens
Efficiency: N/A
Efficacy: 55.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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

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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)