

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: P1319392

Luminaire Tested: P3SQAS02R20B2750DE010 E3SQPHL1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319392
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_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R20 optic, 4000K CCT AND, 80CRI , E3SQPHL1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

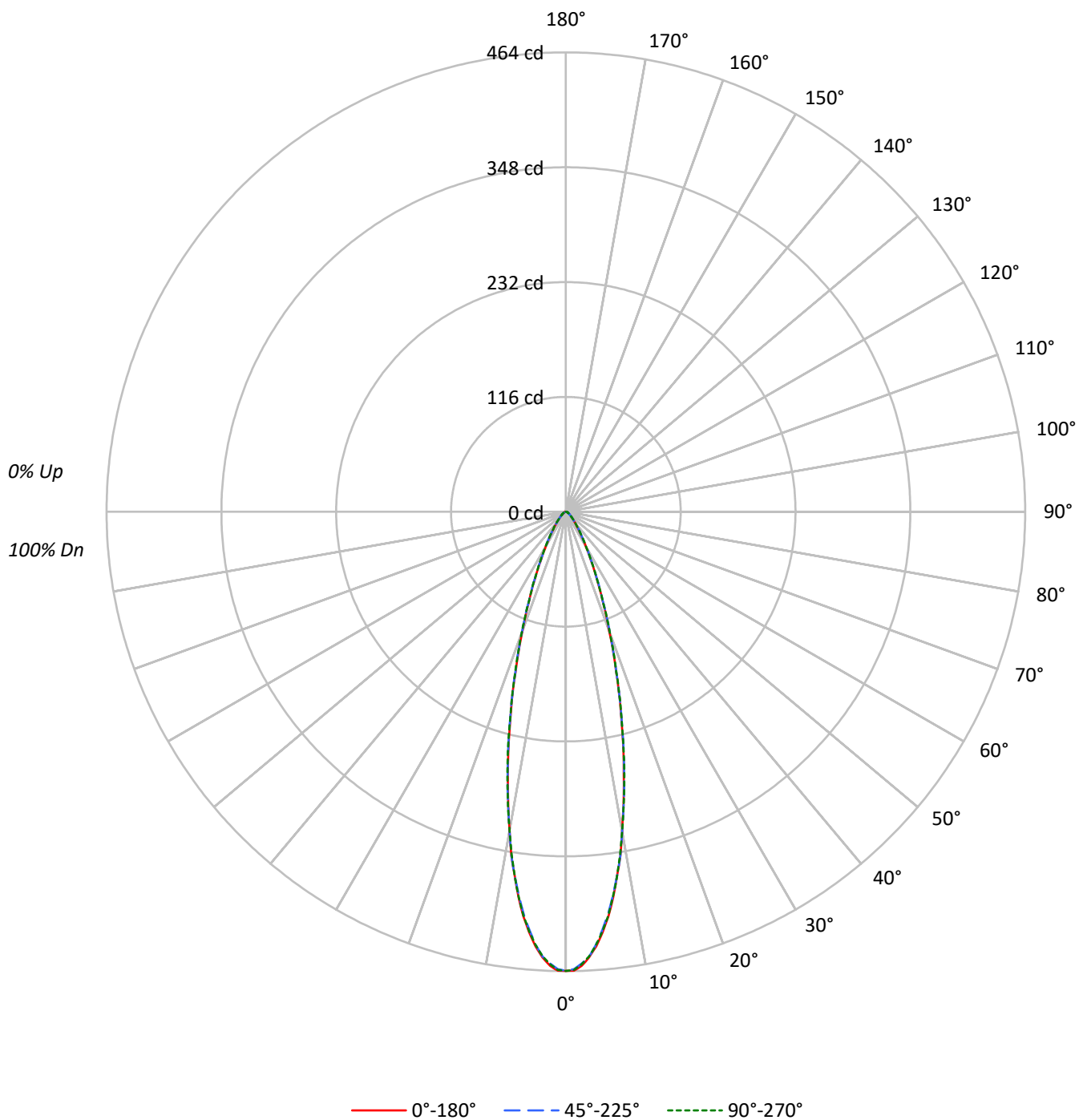
Lumens per Lamp: N/A
Luminaire Lumens: 163.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 0.48 / 0.48 / 0.5
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	79877	79877	79877
5°	73699	73267	73526
10°	57186	57256	57256
15°	38655	38833	38833
20°	23478	23771	23881
25°	13777	13967	13929
30°	8034	8193	8233
35°	4899	5046	5046
40°	3192	3237	3282
45°	2216	2265	2314
50°	1634	1688	1688
55°	1291	1351	1351
60°	1102	1102	1206
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: 2314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.4	23.0
10°-20°	59.9	36.8
20°-30°	34.7	21.3
30°-40°	15.6	9.5
40°-50°	7.4	4.5
50°-60°	4.1	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°	132.0	81.0
0°-40°	147.5	90.5
0°-60°	159.0	97.6
0°-90°	163.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	163.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	426	425	424	425	425	38
15°	217	217	218	217	218	60
25°	72	72	74	73	73	34
35°	23	24	24	24	24	15
45°	9	9	9	9	10	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°	463.8	463.8	463.8	463.8	463.8
1°	463.6	462.4	462.0	461.6	462.8
2°	459.0	457.5	456.7	457.1	457.3
3°	450.6	449.8	449.8	449.2	449.6
4°	439.9	438.3	438.3	438.5	438.5
5°	426.3	424.9	423.8	424.7	425.3
6°	411.1	409.2	408.4	408.6	410.0
7°	392.4	389.9	390.3	391.4	391.4
8°	371.3	371.1	371.5	371.1	371.5
9°	351.8	348.9	351.4	349.3	350.4
10°	327.0	326.8	327.4	328.0	327.4
12.5°	270.6	271.6	272.0	271.2	273.0
15°	216.8	216.8	217.8	216.8	217.8
17.5°	168.7	168.5	169.3	168.5	169.7
20°	128.1	129.5	129.7	129.7	130.3
22.5°	96.6	96.6	97.4	97.6	97.2
25°	72.5	72.5	73.5	72.9	73.3
27.5°	53.6	54.0	54.8	55.2	55.2
30°	40.4	40.6	41.2	41.4	41.4
32.5°	30.4	30.9	31.3	31.5	31.7
35°	23.3	23.5	24.0	24.2	24.0
37.5°	17.9	18.1	18.5	18.7	18.7
40°	14.2	14.2	14.4	14.6	14.6
42.5°	11.2	11.4	11.4	11.6	11.6
45°	9.1	9.1	9.3	9.3	9.5
47.5°	7.3	7.3	7.5	7.7	7.7
50°	6.1	6.1	6.3	6.3	6.3
52.5°	5.1	5.1	5.3	5.3	5.3
55°	4.3	4.3	4.5	4.5	4.5
57.5°	3.7	3.7	3.9	3.9	3.9
60°	3.2	3.2	3.2	3.2	3.5
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)