

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: P#

Luminaire Tested: P3ART20R709740D010 E3LSWW1WMH

Issue Date: 5/8/2026

**Test Information**

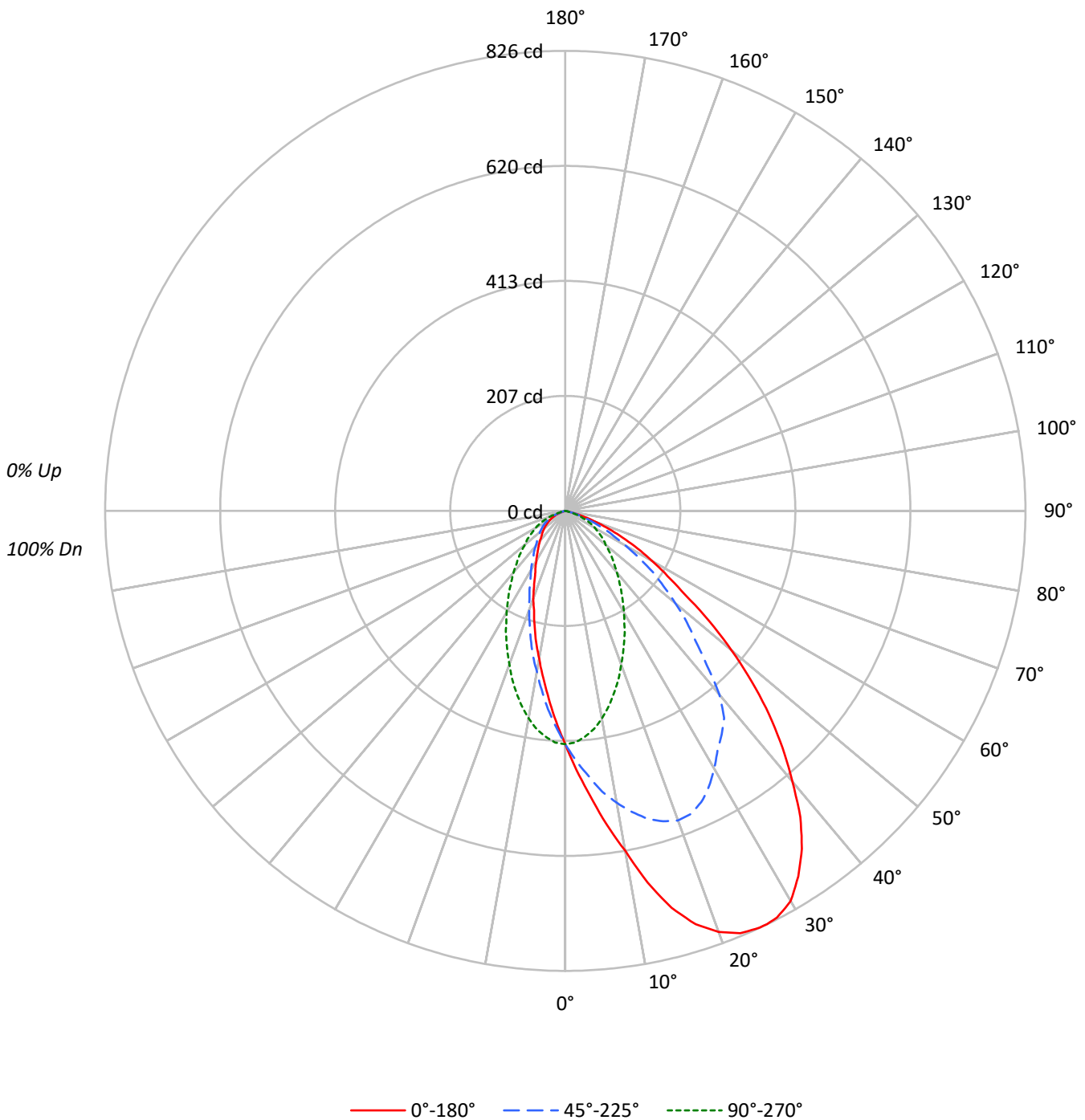
Test Method: LM-79-2019  
Report Number: P#  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2509-551-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/8/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3ART20R709740D010 E3LSWW1WMH  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , E3LSWW1WMH TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 834.0 lumens  
Efficiency: N/A  
Efficacy: 29.0 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.85 / 1.23  
Luminous Opening: Circular (Dia: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.8  
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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CATALOG NUMBER: P3ART20R709740D010 E3LSWW1WMH

### 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	111	108	104	101	109	105	102	100	101	99	96	97	95	94	94	92	91	91	91	89
2	103	96	91	86	101	95	89	85	91	87	83	88	85	81	85	82	80	80	80	78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	70	70	68
4	88	78	70	65	86	77	70	64	74	68	63	72	67	63	70	66	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	53
6	76	64	56	51	74	63	56	51	62	55	50	60	54	50	59	53	49	49	49	47
7	71	59	51	45	69	58	51	45	57	50	45	55	49	45	54	49	44	44	44	43
8	66	54	46	41	65	53	46	41	52	46	41	51	45	41	50	44	40	40	40	39
9	62	50	42	37	61	49	42	37	48	42	37	47	41	37	46	41	37	37	37	35
10	59	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	34	34	32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	91813	91813	91813	91813	91813
5°	112987	105173	89566	78626	74466
10°	137985	118501	84278	65307	60052
15°	167538	129944	76800	54234	48332
20°	187686	138005	68443	44151	39180
25°	199729	139653	60657	36631	30897
30°	204842	135363	53299	31144	26358
35°	198199	131062	46846	26582	22807
40°	181454	123231	41306	23702	20324
45°	160637	102708	36686	22018	18327
50°	133147	87946	32272	20161	16955
55°	100393	73249	29858	19001	15369
60°	78853	54996	26972	17630	13508
65°	58891	40523	23297	14736	11052
70°	37891	25774	16669	10643	6091
75°	16013	14064	8049	3982	2033
80°	3031	3031	0	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 160637 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.7	4.8
10°-20°	114.3	13.7
20°-30°	167.1	20.0
30°-40°	182.1	21.8
40°-50°	157.6	18.9
50°-60°	105.6	12.7
60°-70°	54.5	6.5
70°-80°	12.9	1.5
80°-90°	0.1	0.0
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°	321.2	38.5
0°-40°	503.3	60.3
0°-60°	766.5	91.9
0°-90°	834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	419	419	419	419	419	
5°	513	478	407	357	338	52
15°	738	572	338	239	213	209
25°	826	577	251	151	128	379
35°	740	490	175	99	85	459
45°	518	331	118	71	59	397
55°	263	192	78	50	40	243
65°	114	78	45	28	21	115
75°	19	17	10	5	2	25
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P#  
 CATALOG NUMBER: P3ART20R709740D010 E3LSWW1WMH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7
2.5°	466.0	463.6	463.6	458.9	454.2	449.4	442.3	435.2	428.1	421.0	416.3
5°	513.3	515.7	513.3	503.8	492.0	477.8	463.6	447.1	430.5	416.3	406.9
7.5°	567.7	567.7	560.6	548.8	532.2	508.6	484.9	456.5	430.5	406.9	395.0
10°	619.7	619.7	607.9	589.0	563.0	532.2	499.1	461.3	425.8	392.7	378.5
12.5°	683.6	681.2	667.1	636.3	598.5	553.5	508.6	461.3	418.7	378.5	359.5
15°	738.0	735.7	716.7	678.9	629.2	572.4	510.9	456.5	404.5	359.5	338.3
17.5°	778.2	773.5	752.2	712.0	655.2	584.3	513.3	447.1	387.9	338.3	317.0
20°	804.3	801.9	778.2	730.9	669.4	591.4	510.9	435.2	371.4	317.0	293.3
22.5°	820.8	816.1	792.4	740.4	669.4	589.0	501.5	418.7	350.1	295.7	272.0
25°	825.5	823.2	794.8	738.0	662.3	577.2	487.3	402.1	328.8	274.4	250.7
26°	825.5	823.2	794.8	735.7	657.6	570.1	480.2	395.0	321.7	264.9	243.6
27.5°	823.2	820.8	790.1	728.6	648.1	558.2	466.0	380.8	307.5	253.1	229.4
30°	809.0	804.3	773.5	712.0	626.8	534.6	442.3	359.5	286.2	231.8	210.5
32.5°	778.2	773.5	740.4	683.6	603.2	508.6	416.3	335.9	264.9	210.5	191.6
35°	740.4	735.7	702.5	648.1	570.1	489.6	387.9	309.9	241.3	194.0	175.0
37.5°	693.1	686.0	657.6	600.8	529.9	468.4	364.3	283.9	220.0	175.0	158.5
40°	633.9	631.6	605.6	553.5	482.6	430.5	350.1	283.9	201.1	158.5	144.3
42.5°	577.2	572.4	548.8	503.8	440.0	376.1	307.5	272.0	186.9	141.9	130.1
45°	518.0	513.3	492.0	454.2	395.0	331.2	331.2	234.2	160.9	130.1	118.3
47.5°	454.2	449.4	432.9	404.5	352.5	295.7	241.3	191.6	146.7	115.9	106.4
50°	390.3	392.7	378.5	350.1	309.9	257.8	208.2	160.9	125.4	104.1	94.6
52.5°	326.4	324.1	314.6	295.7	267.3	222.4	177.4	137.2	108.8	92.3	87.5
55°	262.6	264.9	260.2	248.4	224.7	191.6	149.0	118.3	97.0	82.8	78.1
57.5°	217.6	220.0	210.5	203.4	184.5	156.1	123.0	99.3	82.8	73.3	68.6
60°	179.8	182.1	175.0	165.6	151.4	125.4	99.3	82.8	73.3	66.2	61.5
62.5°	146.7	144.3	139.6	130.1	118.3	99.3	80.4	68.6	61.5	56.8	54.4
65°	113.5	113.5	108.8	101.7	92.3	78.1	63.9	56.8	52.0	47.3	44.9
67.5°	85.2	85.2	80.4	75.7	66.2	56.8	49.7	44.9	42.6	37.8	35.5
70°	59.1	59.1	56.8	54.4	47.3	40.2	37.8	33.1	30.8	28.4	26.0
72.5°	37.8	37.8	37.8	33.1	30.8	26.0	26.0	23.7	21.3	18.9	18.9
75°	18.9	21.3	18.9	18.9	16.6	16.6	14.2	14.2	11.8	11.8	9.5
77.5°	7.1	7.1	7.1	7.1	7.1	7.1	4.7	4.7	4.7	4.7	4.7
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7	418.7
2.5°	411.6	404.5	399.8	392.7	387.9	383.2	380.8	378.5	378.5	378.5
5°	399.8	387.9	376.1	364.3	357.2	350.1	343.0	340.6	338.3	338.3
7.5°	385.6	366.6	350.1	335.9	324.1	317.0	309.9	305.1	302.8	302.8
10°	366.6	343.0	324.1	305.1	293.3	283.9	279.1	272.0	272.0	269.7
12.5°	345.4	317.0	295.7	279.1	267.3	255.5	248.4	243.6	241.3	241.3
15°	321.7	293.3	269.7	250.7	238.9	227.1	220.0	215.3	212.9	212.9
17.5°	298.0	267.3	243.6	224.7	212.9	201.1	194.0	189.2	189.2	186.9
20°	274.4	243.6	220.0	201.1	189.2	179.8	172.7	167.9	165.6	167.9
22.5°	253.1	222.4	198.7	182.1	167.9	158.5	151.4	149.0	146.7	146.7
25°	229.4	201.1	179.8	163.2	151.4	141.9	134.8	132.5	130.1	127.7
26°	222.4	194.0	172.7	156.1	144.3	134.8	130.1	125.4	123.0	123.0
27.5°	212.9	182.1	163.2	146.7	134.8	127.7	120.6	118.3	115.9	115.9
30°	191.6	165.6	146.7	132.5	123.0	113.5	108.8	106.4	104.1	104.1
32.5°	175.0	149.0	132.5	120.6	111.2	104.1	99.3	94.6	94.6	94.6
35°	158.5	134.8	120.6	108.8	99.3	92.3	89.9	87.5	85.2	85.2
37.5°	144.3	123.0	108.8	99.3	92.3	85.2	80.4	78.1	78.1	78.1
40°	130.1	113.5	99.3	89.9	82.8	78.1	73.3	71.0	71.0	71.0
42.5°	118.3	101.7	92.3	82.8	75.7	71.0	68.6	66.2	63.9	63.9
45°	108.8	94.6	82.8	75.7	71.0	66.2	61.5	59.1	59.1	59.1
47.5°	97.0	87.5	75.7	68.6	63.9	59.1	56.8	54.4	54.4	54.4
50°	89.9	80.4	71.0	63.9	59.1	54.4	52.0	49.7	49.7	49.7
52.5°	80.4	73.3	66.2	59.1	54.4	49.7	47.3	44.9	44.9	44.9
55°	73.3	66.2	59.1	54.4	49.7	44.9	42.6	40.2	40.2	40.2
57.5°	66.2	59.1	54.4	49.7	44.9	42.6	37.8	37.8	35.5	35.5
60°	59.1	52.0	47.3	44.9	40.2	37.8	33.1	30.8	30.8	30.8
62.5°	49.7	47.3	42.6	37.8	33.1	30.8	28.4	26.0	26.0	26.0
65°	42.6	40.2	35.5	30.8	28.4	26.0	23.7	21.3	21.3	21.3
67.5°	35.5	30.8	28.4	26.0	23.7	21.3	18.9	16.6	14.2	16.6
70°	26.0	23.7	21.3	18.9	16.6	14.2	11.8	11.8	9.5	9.5
72.5°	16.6	14.2	14.2	11.8	9.5	9.5	7.1	7.1	4.7	4.7
75°	9.5	9.5	7.1	7.1	4.7	4.7	2.4	2.4	2.4	2.4
77.5°	4.7	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)