

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: PORTFOLIO

Report Number: P1318007

Luminaire Tested: LDSQA3D02R709830DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

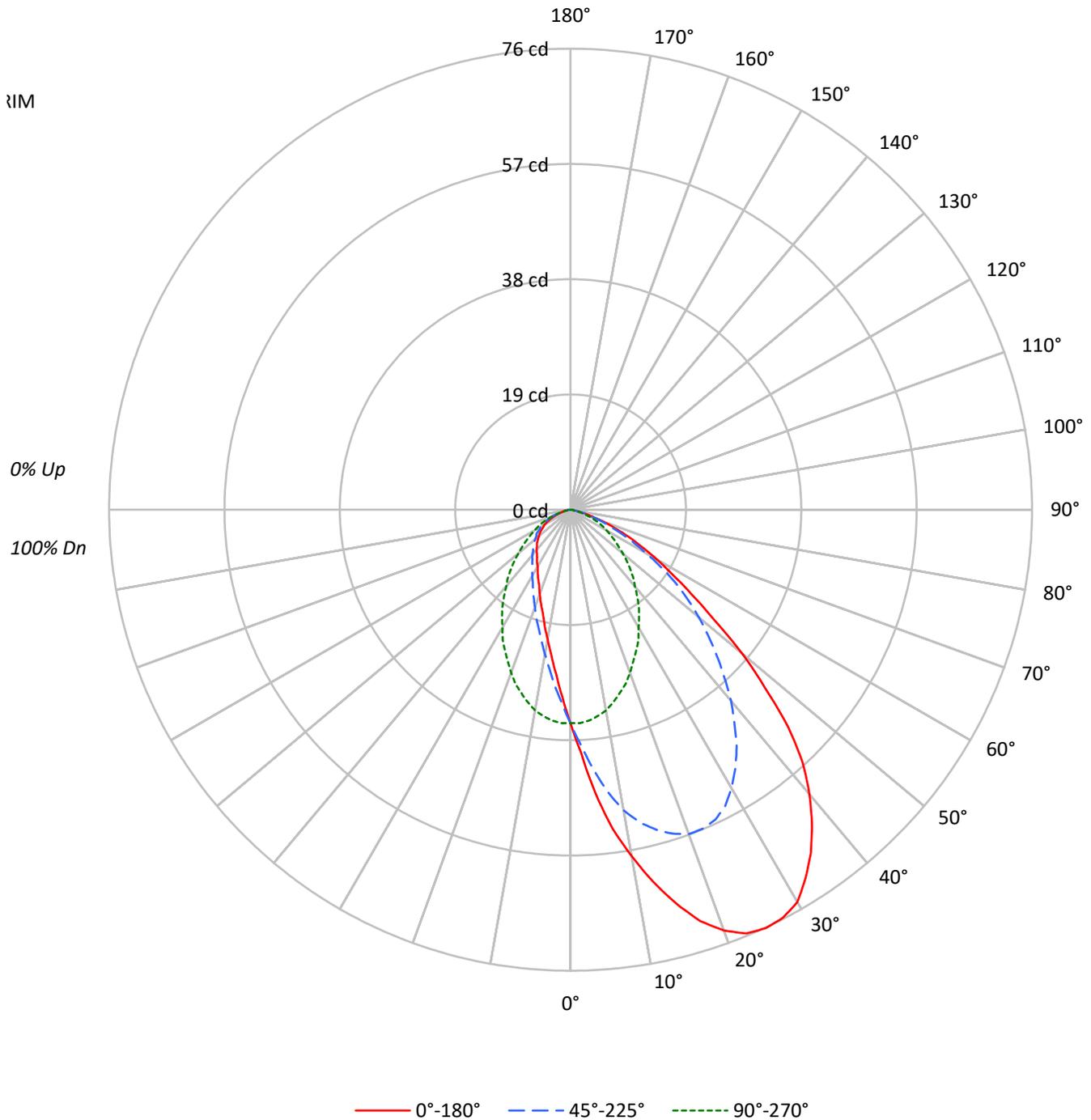
Test Method: LM-79-2019  
Report Number: P1318007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709830DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 86.0 lumens  
Efficiency: N/A  
Efficacy: 23.9 lumens/watt  
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: P1318007  
CATALOG NUMBER: LDSQA3D02R709830DE010 3LSQCLSWWR 1MW

### 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°	135°	180°
0°	6062	6062	6062	6062	6062
5°	8108	7417	6034	5048	4702
10°	10143	8796	5876	4232	3795
15°	11982	9735	5581	3619	3138
20°	13526	10428	5242	3134	2712
25°	14461	10718	4865	2774	2394
30°	14855	10540	4455	2506	2148
35°	14507	10029	4121	2313	2018
40°	13759	9240	3710	2203	1956
45°	12348	8305	3385	2119	1900
50°	9913	7395	3001	2036	1822
55°	7326	6366	2672	2042	1772
60°	5649	4960	2377	1963	1722
65°	4279	3708	2119	1793	1508
70°	2870	2618	1611	1611	1259
75°	1530	1530	1065	1065	932
80°	397	694	496	694	893
85°	0	395	395	790	790

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 12348 cd/sqm



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CATALOG NUMBER: LDSQA3D02R709830DE010 3LSQCLSWWR 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.5	4.0
10°-20°	10.6	12.3
20°-30°	16.3	18.9
30°-40°	18.5	21.5
40°-50°	16.7	19.4
50°-60°	11.7	13.6
60°-70°	6.4	7.5
70°-80°	2.1	2.5
80°-90°	0.3	0.3
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
<b>0°-30°</b>	<b>30.3</b>	<b>35.2</b>
<b>0°-40°</b>	<b>48.8</b>	<b>56.7</b>
<b>0°-60°</b>	<b>77.2</b>	<b>89.7</b>
<b>0°-90°</b>	<b>86.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>86.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	35	35	35	35	35	
5°	47	43	35	29	27	5
15°	67	55	31	20	18	19
25°	76	56	26	15	13	35
35°	69	48	20	11	10	43
45°	51	34	14	9	8	38
55°	24	21	9	7	6	22
65°	10	9	5	4	4	10
75°	2	2	2	2	1	3
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	40.2	40.5	40.7	40.4	40.2	40.0	39.7	39.5	39.1	38.8	38.6
5°	46.9	46.9	46.9	46.6	46.1	45.7	45.0	44.5	43.6	42.9	42.1
7.5°	53.0	53.0	52.8	52.3	51.9	51.0	50.1	49.4	48.0	46.9	45.5
10°	58.0	58.0	57.8	56.9	56.4	55.3	54.4	53.2	51.7	50.3	48.7
12.5°	62.8	62.8	62.1	61.4	60.3	58.9	57.6	56.4	54.4	52.8	50.9
15°	67.2	67.2	66.9	65.6	64.2	62.6	60.8	59.0	56.7	54.6	52.5
17.5°	71.1	71.0	70.4	69.0	67.6	65.6	63.5	61.4	58.5	56.0	53.3
20°	73.8	73.8	73.1	71.5	69.9	67.8	65.4	63.0	59.9	56.9	53.7
22.5°	75.6	75.4	74.7	73.1	71.1	69.0	66.3	63.7	60.3	56.9	53.5
25°	76.1	75.9	75.2	73.4	71.5	69.2	66.3	63.5	59.9	56.4	52.6
27.5°	75.8	75.6	74.9	72.9	71.0	68.3	65.4	62.4	58.9	55.1	51.4
30°	74.7	74.2	73.4	71.7	69.5	66.9	63.8	60.5	56.9	53.0	49.3
32.5°	72.0	72.0	71.1	69.4	67.2	64.4	61.4	58.2	54.2	50.5	46.6
35°	69.0	68.8	68.1	66.2	64.2	61.5	58.5	55.1	51.4	47.7	43.9
37.5°	65.3	65.1	64.4	62.6	60.5	58.0	54.8	51.6	48.0	44.3	40.9
40°	61.2	60.8	59.9	58.5	56.7	53.9	51.0	47.8	44.5	41.1	37.7
42.5°	56.6	56.2	55.5	54.4	52.3	49.8	47.1	44.1	40.9	37.5	35.0
45°	50.7	50.7	50.3	49.3	47.7	45.7	42.9	40.2	37.2	34.1	31.5
47.5°	43.4	43.7	43.6	43.0	42.3	40.5	38.6	36.3	33.4	30.8	28.3
50°	37.0	37.2	37.3	37.0	36.5	35.2	34.0	32.5	30.1	27.6	25.3
52.5°	29.7	30.2	30.2	30.4	30.4	30.1	29.7	28.1	26.9	24.4	22.2
55°	24.4	24.4	24.4	24.7	24.9	25.1	24.7	24.4	22.9	21.2	19.2
57.5°	19.9	19.9	20.3	20.1	20.1	20.5	20.5	20.3	19.4	17.8	16.0
60°	16.4	16.4	16.4	16.4	16.5	16.5	16.5	16.5	15.8	14.4	13.0
62.5°	13.2	13.2	13.2	13.3	13.3	13.3	13.5	13.3	12.6	11.6	10.3
65°	10.5	10.3	10.5	10.5	10.7	10.7	10.7	10.5	9.8	9.1	8.2
67.5°	7.8	8.0	8.0	8.0	8.2	8.4	8.2	8.0	7.5	6.8	6.4
70°	5.7	5.9	5.9	5.9	6.0	6.2	6.0	5.9	5.5	5.2	4.8
72.5°	3.7	3.9	3.9	4.1	4.3	4.3	4.1	4.1	3.9	3.6	3.4
75°	2.3	2.3	2.5	2.5	2.7	2.7	2.7	2.5	2.5	2.3	2.3
77.5°	1.1	1.1	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.2
80°	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.7	0.7	0.7
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P1318007

CATALOG NUMBER: LDSQA3D02R709830DE010 3LSQCLSWWR 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.2
2.5°	38.2	37.7	37.0	35.2	33.4	32.0	31.1	30.9
5°	41.3	40.4	38.8	34.9	31.7	29.2	27.7	27.2
7.5°	44.3	42.7	40.4	34.3	29.5	26.5	24.9	24.2
10°	46.8	44.8	41.8	33.6	27.7	24.2	22.2	21.7
12.5°	48.7	46.4	42.7	32.5	26.0	22.1	20.1	19.6
15°	50.0	47.5	43.2	31.3	24.2	20.3	18.3	17.6
17.5°	50.5	47.5	43.0	30.1	22.6	18.7	16.7	16.2
20°	50.5	47.1	42.5	28.6	21.0	17.1	15.3	14.8
22.5°	50.0	46.4	41.3	27.0	19.6	15.8	14.0	13.5
25°	48.9	45.0	39.8	25.6	18.1	14.6	13.0	12.6
27.5°	47.3	43.4	38.1	24.2	16.9	13.5	12.1	11.7
30°	45.3	41.4	36.1	22.4	15.6	12.6	11.4	10.8
32.5°	42.9	39.1	34.0	21.0	14.6	11.7	10.7	10.3
35°	40.2	36.8	31.7	19.6	13.5	11.0	10.0	9.6
37.5°	37.5	34.0	29.7	18.0	12.6	10.3	9.4	9.1
40°	34.7	32.0	27.6	16.5	11.9	9.8	8.9	8.7
42.5°	31.8	29.0	24.5	15.3	11.0	9.1	8.4	8.2
45°	28.5	25.8	22.2	13.9	10.3	8.7	8.0	7.8
47.5°	25.6	23.1	19.9	12.6	9.6	8.2	7.5	7.3
50°	22.9	20.5	17.4	11.2	8.9	7.6	7.1	6.8
52.5°	19.9	17.8	15.1	10.0	8.2	7.1	6.6	6.4
55°	17.2	15.1	12.6	8.9	7.5	6.8	6.0	5.9
57.5°	14.2	12.4	10.7	7.8	6.8	6.0	5.7	5.3
60°	11.6	10.3	9.1	6.9	6.0	5.7	5.2	5.0
62.5°	9.4	8.5	7.6	6.0	5.3	5.0	4.6	4.3
65°	7.5	6.9	6.2	5.2	4.6	4.4	4.1	3.7
67.5°	5.9	5.5	5.0	4.1	3.9	3.7	3.4	3.0
70°	4.4	4.3	3.9	3.2	3.0	3.2	2.8	2.5
72.5°	3.2	3.0	2.8	2.3	2.3	2.3	2.1	1.8
75°	2.1	2.0	1.8	1.6	1.6	1.6	1.6	1.4
77.5°	1.2	1.2	1.1	0.9	1.1	1.1	1.2	1.2
80°	0.5	0.5	0.5	0.5	0.7	0.7	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)