

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: P1309167

Luminaire Tested: LDSQA3D09R709030DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

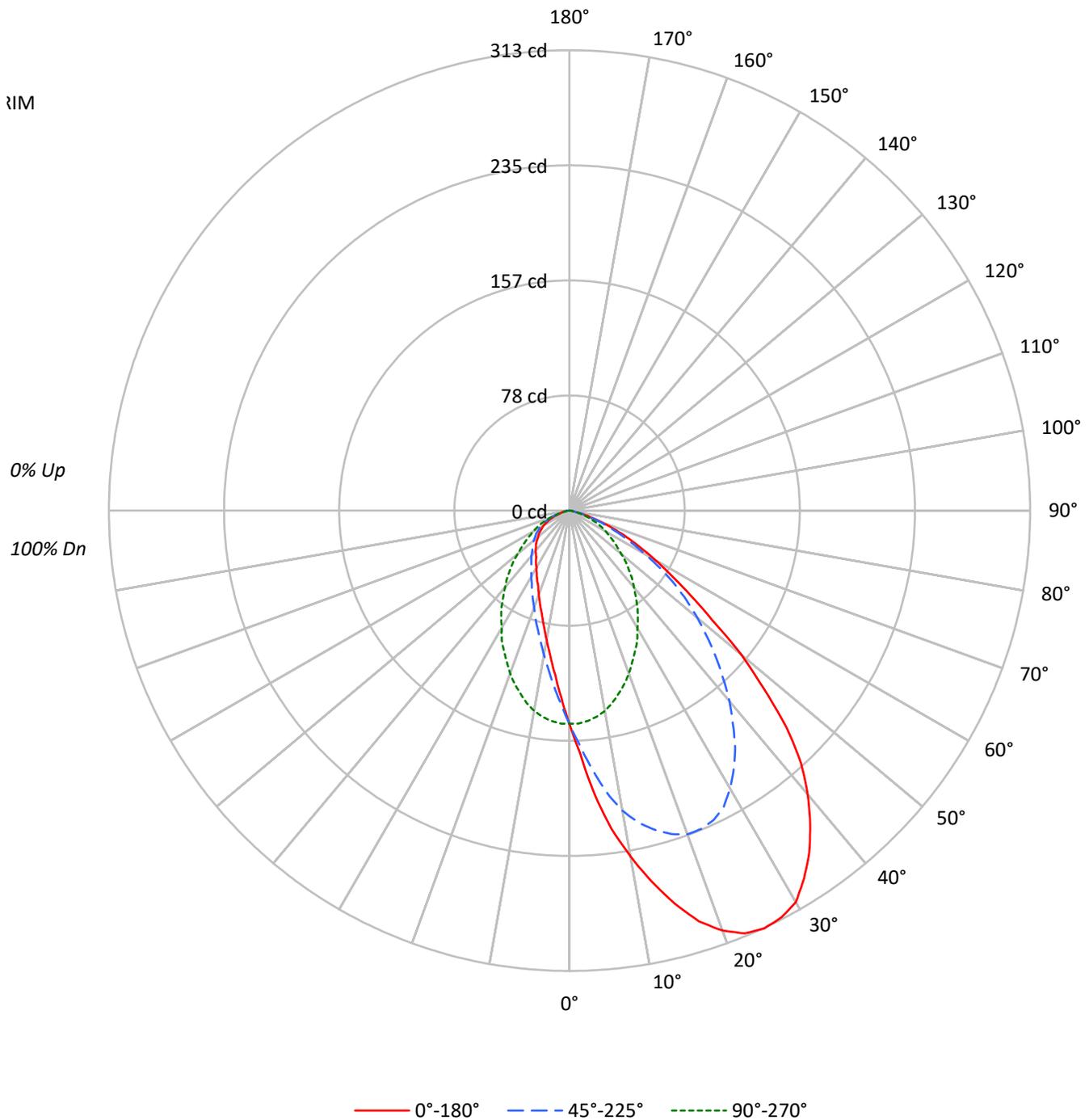
Test Method: LM-79-2019  
Report Number: P1309167  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R709030DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 354.0 lumens  
Efficiency: N/A  
Efficacy: 31.9 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): 11.1  
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

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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	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°	24955	24955	24955	24955	24955
5°	33401	30496	24808	20746	19363
10°	41726	36235	24186	17418	15617
15°	49335	40064	22965	14870	12927
20°	55679	42923	21608	12884	11143
25°	59535	44086	20029	11402	9881
30°	61131	43373	18335	10341	8889
35°	59710	41250	16925	9545	8305
40°	56610	38017	15310	9060	8071
45°	50807	34220	13907	8744	7843
50°	40806	30410	12352	8440	7448
55°	30116	26153	10990	8347	7266
60°	23181	20426	9817	8060	7061
65°	17605	15200	8639	7457	6276
70°	11783	10675	6647	6647	5136
75°	6321	6321	4392	4392	3926
80°	1488	2876	2182	2876	3670
85°	0	1383	1383	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 50807 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	4.0
10°-20°	43.4	12.3
20°-30°	67.0	18.9
30°-40°	76.0	21.5
40°-50°	68.8	19.4
50°-60°	48.1	13.6
60°-70°	26.4	7.5
70°-80°	8.8	2.5
80°-90°	1.2	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>124.7</b>	<b>35.2</b>
<b>0°-40°</b>	<b>200.7</b>	<b>56.7</b>
<b>0°-60°</b>	<b>317.6</b>	<b>89.7</b>
<b>0°-90°</b>	<b>354.0</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>354.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	193	176	144	120	112	20
15°	277	225	129	83	72	79
25°	313	232	105	60	52	144
35°	284	196	80	45	40	177
45°	209	140	57	36	32	158
55°	100	87	37	28	24	92
65°	43	37	21	18	15	43
75°	10	10	7	7	6	11
85°	0	1	1	2	2	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°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9
2.5°	165.4	166.9	167.6	166.2	165.4	164.7	163.2	162.5	161.0	159.6	158.8
5°	193.2	193.2	193.2	191.8	189.6	188.1	185.2	183.0	179.3	176.4	173.5
7.5°	218.1	218.1	217.4	215.2	213.7	210.1	206.4	203.5	197.6	193.2	187.4
10°	238.6	238.6	237.9	234.2	232.0	227.7	224.0	218.9	213.0	207.2	200.6
12.5°	258.4	258.4	255.5	252.5	248.2	242.3	237.2	232.0	224.0	217.4	209.4
15°	276.7	276.7	275.2	270.1	264.3	257.7	250.3	243.0	233.5	224.7	215.9
17.5°	292.8	292.1	289.9	284.0	278.2	270.1	261.3	252.5	240.8	230.6	219.6
20°	303.8	303.8	300.9	294.3	287.7	278.9	269.4	259.1	246.7	234.2	221.1
22.5°	311.1	310.4	307.4	300.9	292.8	284.0	273.0	262.1	248.2	234.2	220.3
25°	313.3	312.6	309.6	302.3	294.3	284.8	273.0	261.3	246.7	232.0	216.7
27.5°	311.8	311.1	308.2	300.1	292.1	281.1	269.4	256.9	242.3	226.9	211.6
30°	307.4	305.2	302.3	295.0	286.2	275.2	262.8	248.9	234.2	218.1	202.8
32.5°	296.5	296.5	292.8	285.5	276.7	265.0	252.5	239.4	223.3	207.9	191.8
35°	284.0	283.3	280.4	272.3	264.3	253.3	240.8	226.9	211.6	196.2	180.8
37.5°	268.6	267.9	265.0	257.7	248.9	238.6	225.5	212.3	197.6	182.3	168.4
40°	251.8	250.3	246.7	240.8	233.5	221.8	210.1	196.9	183.0	169.1	155.2
42.5°	232.8	231.3	228.4	224.0	215.2	205.0	194.0	181.5	168.4	154.5	144.2
45°	208.6	208.6	207.2	202.8	196.2	188.1	176.4	165.4	153.0	140.5	129.6
47.5°	178.6	180.1	179.3	177.1	174.2	166.9	158.8	149.3	137.6	126.6	116.4
50°	152.3	153.0	153.7	152.3	150.1	144.9	139.8	134.0	123.7	113.5	103.9
52.5°	122.2	124.4	124.4	125.2	125.2	123.7	122.2	115.7	110.5	100.3	91.5
55°	100.3	100.3	100.3	101.7	102.5	103.2	101.7	100.3	94.4	87.1	79.1
57.5°	82.0	82.0	83.4	82.7	82.7	84.2	84.2	83.4	79.8	73.2	65.9
60°	67.3	67.3	67.3	67.3	68.1	68.1	68.1	68.1	65.1	59.3	53.4
62.5°	54.2	54.2	54.2	54.9	54.9	54.9	55.6	54.9	52.0	47.6	42.5
65°	43.2	42.5	43.2	43.2	43.9	43.9	43.9	43.2	40.3	37.3	33.7
67.5°	32.2	32.9	32.9	32.9	33.7	34.4	33.7	32.9	30.7	27.8	26.4
70°	23.4	24.2	24.2	24.2	24.9	25.6	24.9	24.2	22.7	21.2	19.8
72.5°	15.4	16.1	16.1	16.8	17.6	17.6	16.8	16.8	16.1	14.6	13.9
75°	9.5	9.5	10.2	10.2	11.0	11.0	11.0	10.2	10.2	9.5	9.5
77.5°	4.4	4.4	5.1	5.1	5.1	5.9	5.9	5.9	5.9	5.9	5.1
80°	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.9	2.9	2.9
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	144.9	144.9	144.9	144.9	144.9	144.9	144.9	144.9
2.5°	157.4	155.2	152.3	144.9	137.6	131.8	128.1	127.4
5°	169.8	166.2	159.6	143.5	130.3	120.0	114.2	112.0
7.5°	182.3	175.7	166.2	141.3	121.5	109.1	102.5	99.6
10°	192.5	184.5	172.0	138.3	114.2	99.6	91.5	89.3
12.5°	200.6	191.1	175.7	134.0	106.9	90.8	82.7	80.5
15°	205.7	195.4	177.9	128.8	99.6	83.4	75.4	72.5
17.5°	207.9	195.4	177.1	123.7	93.0	76.9	68.8	66.6
20°	207.9	194.0	174.9	117.9	86.4	70.3	63.0	60.8
22.5°	205.7	191.1	169.8	111.3	80.5	65.1	57.8	55.6
25°	201.3	185.2	164.0	105.4	74.7	60.0	53.4	52.0
27.5°	194.7	178.6	156.6	99.6	69.5	55.6	49.8	48.3
30°	186.7	170.6	148.6	92.2	64.4	52.0	46.8	44.7
32.5°	176.4	161.0	139.8	86.4	60.0	48.3	43.9	42.5
35°	165.4	151.5	130.3	80.5	55.6	45.4	41.0	39.5
37.5°	154.5	139.8	122.2	73.9	52.0	42.5	38.8	37.3
40°	142.7	131.8	113.5	68.1	49.0	40.3	36.6	35.9
42.5°	131.0	119.3	101.0	63.0	45.4	37.3	34.4	33.7
45°	117.1	106.1	91.5	57.1	42.5	35.9	32.9	32.2
47.5°	105.4	95.2	82.0	52.0	39.5	33.7	30.7	30.0
50°	94.4	84.2	71.7	46.1	36.6	31.5	29.3	27.8
52.5°	82.0	73.2	62.2	41.0	33.7	29.3	27.1	26.4
55°	71.0	62.2	52.0	36.6	30.7	27.8	24.9	24.2
57.5°	58.6	51.2	43.9	32.2	27.8	24.9	23.4	22.0
60°	47.6	42.5	37.3	28.5	24.9	23.4	21.2	20.5
62.5°	38.8	35.1	31.5	24.9	22.0	20.5	19.0	17.6
65°	30.7	28.5	25.6	21.2	19.0	18.3	16.8	15.4
67.5°	24.2	22.7	20.5	16.8	16.1	15.4	13.9	12.4
70°	18.3	17.6	16.1	13.2	12.4	13.2	11.7	10.2
72.5°	13.2	12.4	11.7	9.5	9.5	9.5	8.8	7.3
75°	8.8	8.1	7.3	6.6	6.6	6.6	6.6	5.9
77.5°	5.1	5.1	4.4	3.7	4.4	4.4	5.1	5.1
80°	2.2	2.2	2.2	2.2	2.9	2.9	3.7	3.7
82.5°	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2
85°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)