

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: P1320051

Luminaire Tested: LDSQA3D09R709840DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320051  
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: LDSQA3D09R709840DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

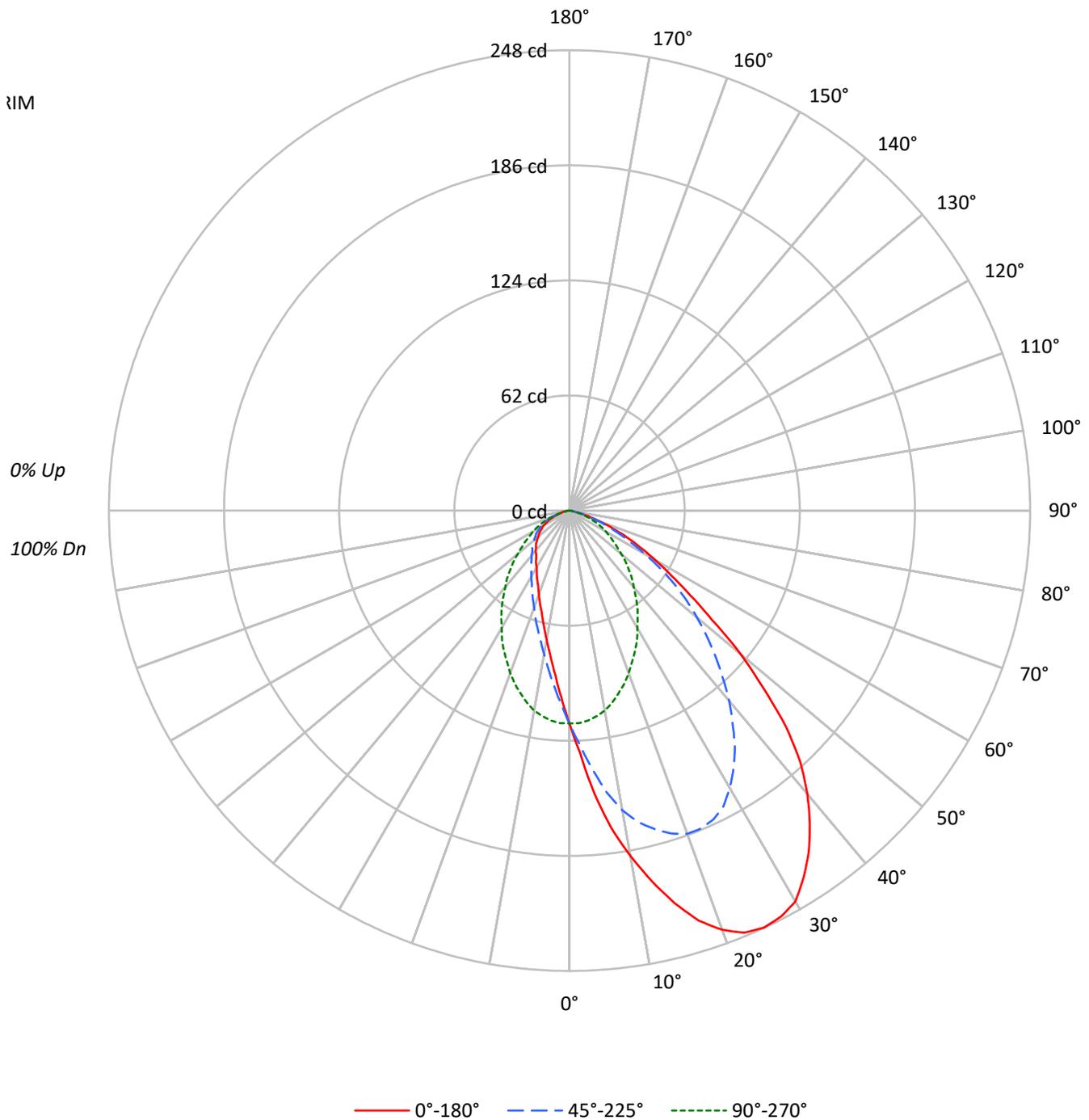
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 280.0 lumens  
Efficiency: N/A  
Efficacy: 25.5 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  
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	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°	19737	19737	19737	19737	19737
5°	26433	24117	19622	16424	15317
10°	33017	28663	19132	13763	12346
15°	39029	31684	18169	11768	10216
20°	44041	33961	17081	10190	8816
25°	47089	34870	15848	9026	7810
30°	48364	34304	14517	8173	7020
35°	47221	32630	13393	7548	6581
40°	44784	30059	12095	7149	6385
45°	40187	27084	11009	6917	6211
50°	32259	24033	9779	6671	5894
55°	23811	20688	8678	6606	5735
60°	18359	16154	7784	6372	5580
65°	13937	12022	6846	5909	4972
70°	9316	8460	5237	5237	4079
75°	4991	4991	3460	3460	3061
80°	1190	2281	1686	2281	2876
85°	0	1186	1186	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 40187 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.3	4.0
10°-20°	34.4	12.3
20°-30°	53.0	18.9
30°-40°	60.1	21.5
40°-50°	54.4	19.4
50°-60°	38.0	13.6
60°-70°	20.9	7.5
70°-80°	7.0	2.5
80°-90°	0.9	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>98.6</b>	<b>35.2</b>
<b>0°-40°</b>	<b>158.8</b>	<b>56.7</b>
<b>0°-60°</b>	<b>251.2</b>	<b>89.7</b>
<b>0°-90°</b>	<b>280.0</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>280.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	115	115	115	115	115	
5°	153	140	114	95	89	16
15°	219	178	102	66	57	62
25°	248	184	83	48	41	114
35°	225	155	64	36	31	140
45°	165	111	45	28	26	125
55°	79	69	29	22	19	73
65°	34	30	17	14	12	34
75°	8	8	5	5	5	9
85°	0	1	1	1	1	0
90°	0	0	0	0	0	



TEST NUMBER: P1320051

CATALOG NUMBER: LDSQA3D09R709840DE010 3LSQCLSWWR 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6
2.5°	130.9	132.0	132.6	131.4	130.9	130.3	129.1	128.5	127.4	126.2	125.6
5°	152.9	152.9	152.9	151.7	150.0	148.8	146.5	144.7	141.9	139.5	137.2
7.5°	172.5	172.5	172.0	170.2	169.1	166.2	163.3	161.0	156.3	152.9	148.2
10°	188.8	188.8	188.2	185.3	183.5	180.1	177.2	173.1	168.5	163.9	158.6
12.5°	204.4	204.4	202.1	199.8	196.3	191.6	187.6	183.5	177.2	172.0	165.6
15°	218.9	218.9	217.7	213.6	209.0	203.8	198.0	192.2	184.7	177.7	170.8
17.5°	231.6	231.0	229.3	224.6	220.0	213.6	206.7	199.8	190.5	182.4	173.7
20°	240.3	240.3	238.0	232.8	227.5	220.6	213.1	205.0	195.1	185.3	174.9
22.5°	246.1	245.5	243.2	238.0	231.6	224.6	216.0	207.3	196.3	185.3	174.3
25°	247.8	247.2	244.9	239.1	232.8	225.2	216.0	206.7	195.1	183.5	171.4
27.5°	246.6	246.1	243.8	237.4	231.0	222.3	213.1	203.2	191.6	179.5	167.3
30°	243.2	241.4	239.1	233.3	226.4	217.7	207.9	196.9	185.3	172.5	160.4
32.5°	234.5	234.5	231.6	225.8	218.9	209.6	199.8	189.3	176.6	164.4	151.7
35°	224.6	224.1	221.8	215.4	209.0	200.3	190.5	179.5	167.3	155.2	143.0
37.5°	212.5	211.9	209.6	203.8	196.9	188.8	178.3	167.9	156.3	144.2	133.2
40°	199.2	198.0	195.1	190.5	184.7	175.4	166.2	155.7	144.7	133.7	122.7
42.5°	184.1	183.0	180.6	177.2	170.2	162.1	153.4	143.6	133.2	122.2	114.1
45°	165.0	165.0	163.9	160.4	155.2	148.8	139.5	130.9	121.0	111.2	102.5
47.5°	141.3	142.4	141.9	140.1	137.8	132.0	125.6	118.1	108.8	100.2	92.1
50°	120.4	121.0	121.6	120.4	118.7	114.6	110.6	106.0	97.8	89.7	82.2
52.5°	96.7	98.4	98.4	99.0	99.0	97.8	96.7	91.5	87.4	79.3	72.4
55°	79.3	79.3	79.3	80.5	81.1	81.6	80.5	79.3	74.7	68.9	62.5
57.5°	64.8	64.8	66.0	65.4	65.4	66.6	66.6	66.0	63.1	57.9	52.1
60°	53.3	53.3	53.3	53.3	53.8	53.8	53.8	53.8	51.5	46.9	42.3
62.5°	42.8	42.8	42.8	43.4	43.4	43.4	44.0	43.4	41.1	37.6	33.6
65°	34.2	33.6	34.2	34.2	34.7	34.7	34.7	34.2	31.8	29.5	26.6
67.5°	25.5	26.1	26.1	26.1	26.6	27.2	26.6	26.1	24.3	22.0	20.8
70°	18.5	19.1	19.1	19.1	19.7	20.3	19.7	19.1	17.9	16.8	15.6
72.5°	12.2	12.7	12.7	13.3	13.9	13.9	13.3	13.3	12.7	11.6	11.0
75°	7.5	7.5	8.1	8.1	8.7	8.7	8.7	8.1	8.1	7.5	7.5
77.5°	3.5	3.5	4.1	4.1	4.1	4.6	4.6	4.6	4.6	4.6	4.1
80°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	114.6	114.6	114.6	114.6	114.6	114.6	114.6	114.6
2.5°	124.5	122.7	120.4	114.6	108.8	104.2	101.3	100.7
5°	134.3	131.4	126.2	113.5	103.1	95.0	90.3	88.6
7.5°	144.2	139.0	131.4	111.7	96.1	86.3	81.1	78.7
10°	152.3	145.9	136.1	109.4	90.3	78.7	72.4	70.6
12.5°	158.6	151.1	139.0	106.0	84.5	71.8	65.4	63.7
15°	162.7	154.6	140.7	101.9	78.7	66.0	59.6	57.3
17.5°	164.4	154.6	140.1	97.8	73.5	60.8	54.4	52.7
20°	164.4	153.4	138.4	93.2	68.3	55.6	49.8	48.1
22.5°	162.7	151.1	134.3	88.0	63.7	51.5	45.7	44.0
25°	159.2	146.5	129.7	83.4	59.1	47.5	42.3	41.1
27.5°	154.0	141.3	123.9	78.7	55.0	44.0	39.4	38.2
30°	147.6	134.9	117.5	73.0	51.0	41.1	37.1	35.3
32.5°	139.5	127.4	110.6	68.3	47.5	38.2	34.7	33.6
35°	130.9	119.9	103.1	63.7	44.0	35.9	32.4	31.3
37.5°	122.2	110.6	96.7	58.5	41.1	33.6	30.7	29.5
40°	112.9	104.2	89.7	53.8	38.8	31.8	28.9	28.4
42.5°	103.6	94.4	79.9	49.8	35.9	29.5	27.2	26.6
45°	92.6	84.0	72.4	45.2	33.6	28.4	26.1	25.5
47.5°	83.4	75.3	64.8	41.1	31.3	26.6	24.3	23.7
50°	74.7	66.6	56.7	36.5	28.9	24.9	23.2	22.0
52.5°	64.8	57.9	49.2	32.4	26.6	23.2	21.4	20.8
55°	56.2	49.2	41.1	28.9	24.3	22.0	19.7	19.1
57.5°	46.3	40.5	34.7	25.5	22.0	19.7	18.5	17.4
60°	37.6	33.6	29.5	22.6	19.7	18.5	16.8	16.2
62.5°	30.7	27.8	24.9	19.7	17.4	16.2	15.1	13.9
65°	24.3	22.6	20.3	16.8	15.1	14.5	13.3	12.2
67.5°	19.1	17.9	16.2	13.3	12.7	12.2	11.0	9.8
70°	14.5	13.9	12.7	10.4	9.8	10.4	9.3	8.1
72.5°	10.4	9.8	9.3	7.5	7.5	7.5	6.9	5.8
75°	6.9	6.4	5.8	5.2	5.2	5.2	5.2	4.6
77.5°	4.1	4.1	3.5	2.9	3.5	3.5	4.1	4.1
80°	1.7	1.7	1.7	1.7	2.3	2.3	2.9	2.9
82.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)