

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: P1320020

Luminaire Tested: LDSQA3D09R559840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1320020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559840DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

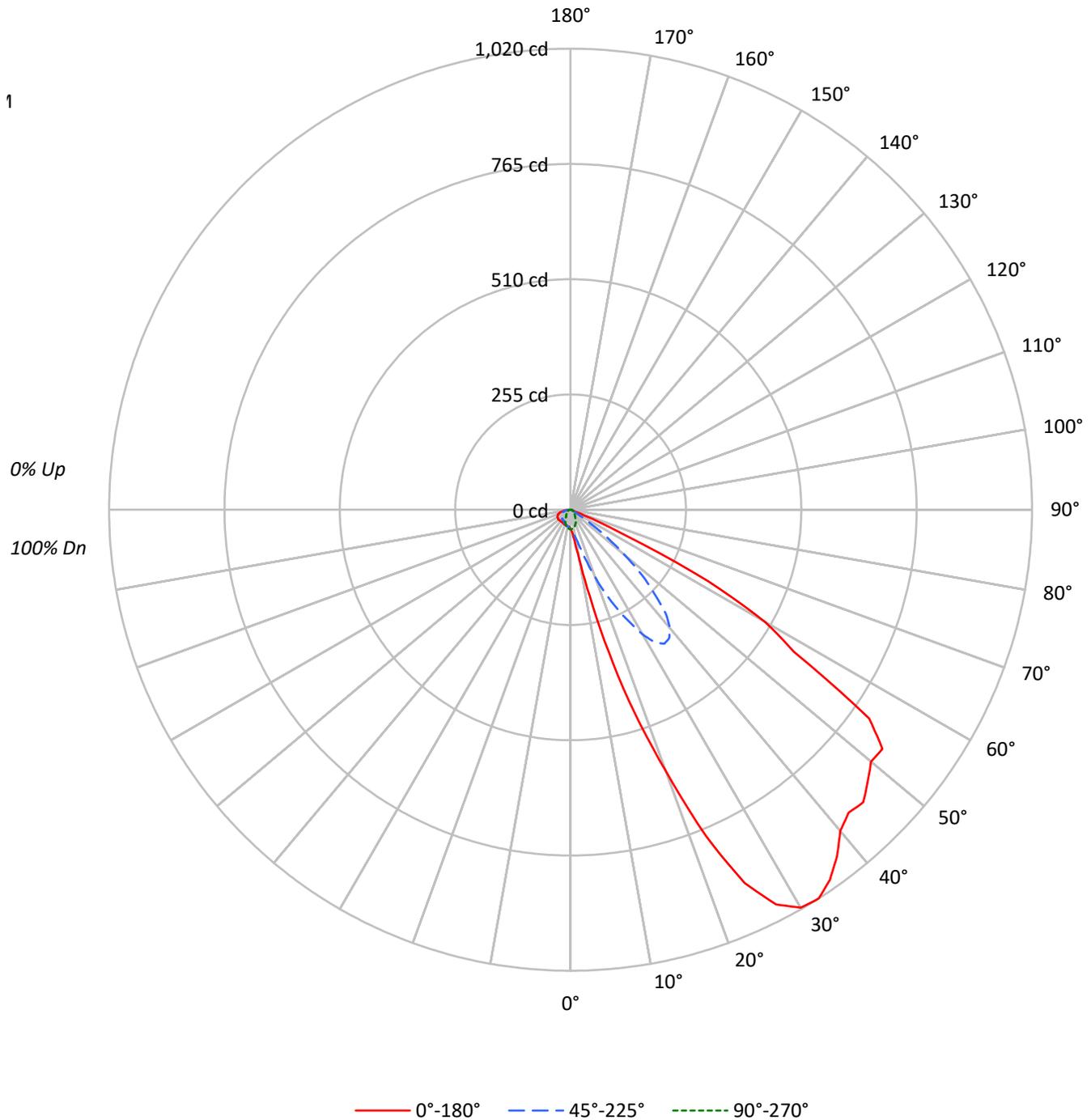
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 656.0 lumens  
Efficiency: N/A  
Efficacy: 59.6 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95  
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 (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	100				
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86				
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73				
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61				
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51				
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43				
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37				
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32				
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27				
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24				
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21				

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

	0°	45°	90°	135°	180°
0°	7285	7285	7285	7285	7285
5°	9318	8523	7313	6811	6621
10°	18957	10843	7100	6488	6488
15°	58179	16635	6615	6312	6508
20°	112495	29104	5956	6158	6488
25°	173152	45264	5169	5948	6499
30°	202167	63279	4256	5886	6682
35°	210098	76046	3532	5845	6938
40°	208499	76754	3260	6115	7554
45°	222906	63520	3118	6625	8184
50°	232323	41931	3108	7154	9163
55°	241920	18286	3123	7837	10089
60°	170914	4202	3203	8577	11367
65°	55748	1426	3056	9210	12755
70°	1762	1460	3223	9920	14603
75°	1530	1530	2728	10381	16170
80°	1190	1686	2876	10315	17257
85°	1186	2371	3359	10275	17191

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 245789 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.7
10°-20°	27.8	4.2
20°-30°	93.4	14.2
30°-40°	153.3	23.4
40°-50°	171.0	26.1
50°-60°	144.0	21.9
60°-70°	48.8	7.4
70°-80°	9.5	1.5
80°-90°	3.6	0.5
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°	125.7	19.2
0°-40°	279.0	42.5
0°-60°	594.0	90.6
0°-90°	656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	656.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	42	42	42	42	42	
5°	54	49	42	39	38	7
15°	326	93	37	35	36	104
25°	911	238	27	31	34	409
35°	999	362	17	28	33	620
45°	915	261	13	27	34	699
55°	806	61	10	26	34	656
65°	137	4	8	23	31	185
75°	2	2	4	16	24	2
85°	1	1	2	5	9	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3	42.3
2.5°	46.4	46.4	46.4	46.4	46.4	46.4	45.8	44.1	42.9	41.2	40.6
5°	53.9	53.9	53.9	53.3	53.3	52.2	49.3	45.2	42.3	40.0	39.4
7.5°	69.6	69.0	67.8	67.2	65.5	64.9	54.5	46.4	41.7	38.8	38.3
10°	108.4	107.2	105.5	99.1	93.3	89.3	62.0	46.9	40.6	37.7	37.1
12.5°	195.3	193.0	184.3	171.0	154.8	146.6	74.2	47.5	38.8	36.5	36.5
15°	326.3	323.4	307.2	288.6	259.1	242.9	93.3	46.9	37.1	34.8	35.4
17.5°	471.2	463.1	446.3	422.0	382.0	362.8	121.7	45.8	34.8	33.6	34.8
20°	613.8	611.5	583.7	550.6	501.4	475.9	158.8	44.1	32.5	31.9	33.6
22.5°	780.7	770.9	741.3	706.0	638.2	604.5	198.8	41.7	30.1	30.1	32.5
25°	911.2	899.6	876.4	835.2	770.9	735.0	238.2	38.8	27.2	28.4	31.3
27.5°	984.2	970.9	953.5	918.1	868.3	836.4	277.6	35.4	24.3	26.7	30.1
30°	1016.6	1013.2	1000.4	974.3	928.5	900.1	318.2	31.3	21.4	24.9	29.6
32.5°	1020.1	1021.9	1016.6	999.8	965.1	940.7	348.3	27.8	19.1	23.8	28.4
35°	999.3	1005.6	1009.1	1002.2	979.5	959.8	361.7	23.8	16.8	22.6	27.8
37.5°	966.8	978.4	990.0	991.7	977.8	965.1	358.2	20.3	15.6	22.0	27.8
40°	927.4	937.8	961.6	976.7	972.0	962.7	341.4	16.8	14.5	20.9	27.2
42.5°	909.4	911.7	937.2	962.7	961.6	954.0	311.8	13.3	13.3	20.9	27.2
45°	915.2	904.8	921.6	951.1	949.4	939.6	260.8	10.4	12.8	20.3	27.2
47.5°	890.9	876.4	904.8	939.6	933.2	918.7	215.6	7.5	12.2	19.7	26.7
50°	867.1	864.8	886.8	904.2	895.5	887.4	156.5	5.8	11.6	19.1	26.7
52.5°	868.8	864.8	867.1	866.5	849.1	840.4	107.2	4.6	11.0	18.5	26.7
55°	805.7	792.9	780.7	784.2	785.4	779.6	60.9	4.1	10.4	18.5	26.1
57.5°	585.4	581.9	595.3	632.9	662.5	666.0	29.6	4.1	9.9	18.0	25.5
60°	496.2	493.8	494.4	505.4	521.1	511.2	12.2	4.1	9.3	17.4	24.9
62.5°	342.0	364.6	373.9	399.4	388.9	375.0	4.6	4.6	8.7	16.2	24.3
65°	136.8	136.2	149.0	161.1	157.7	147.2	3.5	4.1	7.5	15.1	22.6
67.5°	31.9	29.0	24.9	21.4	18.0	14.5	3.5	4.1	7.0	13.9	21.4
70°	3.5	3.5	3.5	3.5	3.5	2.9	2.9	4.1	6.4	12.8	19.7
72.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	5.2	11.0	18.0
75°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	4.1	9.3	15.6
77.5°	1.7	1.7	1.7	2.3	1.7	2.3	2.3	2.9	3.5	7.5	13.3
80°	1.2	1.2	1.7	1.7	1.7	1.7	1.7	2.3	2.9	6.4	10.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	4.6	7.5
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.7	1.7	3.5	5.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.7	1.7	2.3
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):**

	157.5°	180°
0°	42.3	42.3
2.5°	40.0	40.0
5°	38.8	38.3
7.5°	37.7	37.7
10°	37.1	37.1
12.5°	36.5	37.1
15°	36.5	36.5
17.5°	35.4	35.9
20°	34.8	35.4
22.5°	34.2	34.8
25°	33.6	34.2
27.5°	33.0	33.6
30°	32.5	33.6
32.5°	31.9	33.0
35°	31.9	33.0
37.5°	31.9	33.6
40°	31.9	33.6
42.5°	31.9	33.6
45°	31.9	33.6
47.5°	31.9	33.6
50°	31.9	34.2
52.5°	31.9	34.2
55°	31.9	33.6
57.5°	31.3	33.6
60°	31.3	33.0
62.5°	30.7	32.5
65°	29.6	31.3
67.5°	28.4	30.7
70°	26.7	29.0
72.5°	24.9	26.7
75°	22.6	24.3
77.5°	19.7	20.9
80°	15.6	17.4
82.5°	12.2	13.3
85°	8.1	8.7
87.5°	3.5	4.1
90°	0.0	0.0

(END OF REPORT)