

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: P1315194

Luminaire Tested: LDSQA3D02R609735DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

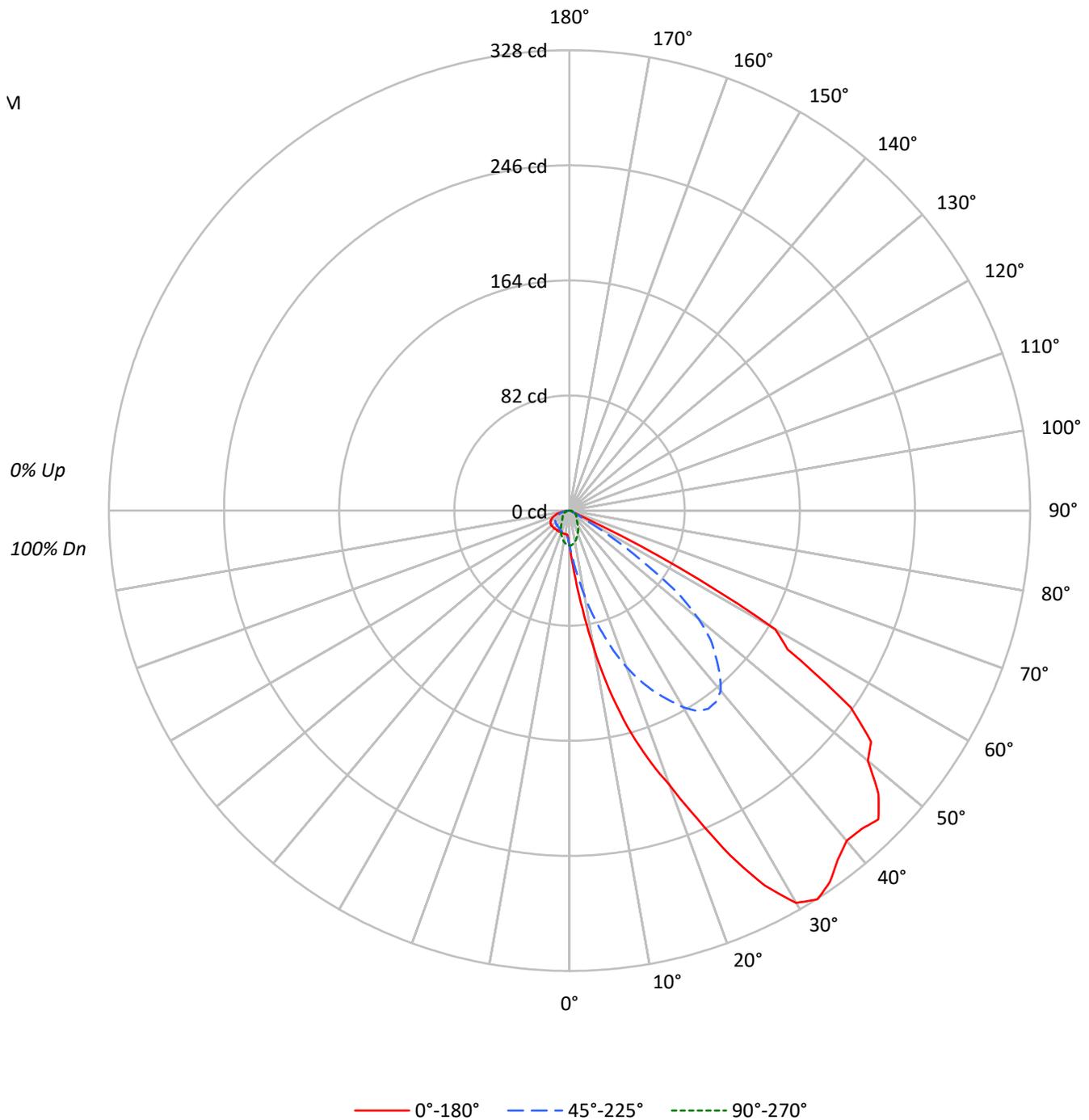
Test Method: LM-79-2019  
Report Number: P1315194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R609735DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 250.0 lumens  
Efficiency: N/A  
Efficacy: 69.4 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
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

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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74	
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62	
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29	
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25	
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22	

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

	0°	45°	90°	135°	180°
0°	4271	4271	4271	4271	4271
5°	8402	6569	4201	3181	3025
10°	17366	10685	3935	2903	2938
15°	28403	16047	3530	2924	2995
20°	38103	21736	3171	2914	3042
25°	51554	26984	2755	2888	3154
30°	64174	32137	2307	2884	3301
35°	67951	36225	1955	2964	3448
40°	69020	37657	1799	3058	3732
45°	75771	35876	1705	3264	4043
50°	74270	32152	1715	3483	4448
55°	73414	19727	1711	3753	4924
60°	58246	4684	1791	3996	5339
65°	3708	815	1752	4075	5746
70°	806	906	1712	4230	6043
75°	732	932	1530	4059	6188
80°	694	893	1587	4066	5852
85°	395	988	1778	3557	5928

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 79978 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.1	1.2
10°-20°	15.6	6.2
20°-30°	36.1	14.5
30°-40°	56.2	22.5
40°-50°	64.0	25.6
50°-60°	53.9	21.6
60°-70°	15.6	6.3
70°-80°	4.0	1.6
80°-90°	1.4	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°	54.8	21.9
0°-40°	111.0	44.4
0°-60°	229.0	91.6
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	25	25	25	25	25	
5°	49	38	24	18	18	6
15°	159	90	20	16	17	46
25°	271	142	14	15	17	126
35°	323	172	9	14	16	201
45°	311	147	7	13	17	234
55°	244	66	6	12	16	206
65°	9	2	4	10	14	45
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
2.5°	33.4	33.2	33.2	33.0	32.7	32.5	31.8	31.6	30.2	27.5	24.8
5°	48.6	48.4	47.7	47.5	46.4	44.8	43.2	41.6	38.0	30.2	24.3
7.5°	70.4	70.9	70.4	67.9	66.4	63.9	59.1	55.7	48.4	33.0	23.4
10°	99.3	99.3	98.6	94.8	91.4	86.6	80.4	74.5	61.1	35.5	22.5
12.5°	130.7	131.4	127.9	124.8	118.6	112.7	104.3	95.4	75.7	37.5	21.4
15°	159.3	158.9	155.4	151.4	145.0	136.8	127.9	116.6	90.0	38.9	19.8
17.5°	184.8	183.8	180.9	176.3	168.6	159.5	148.2	135.9	104.8	40.0	18.6
20°	207.9	204.8	201.3	196.6	189.1	179.5	167.7	153.9	118.6	40.0	17.3
22.5°	237.3	234.1	229.3	222.0	212.0	200.2	186.3	170.7	130.9	39.1	15.9
25°	271.3	268.8	260.7	251.3	238.4	224.3	208.2	187.0	142.0	37.7	14.5
27.5°	301.1	298.4	290.2	276.6	260.9	244.1	227.0	205.4	151.8	35.2	13.0
30°	322.7	319.3	312.9	300.0	280.9	260.4	240.2	219.5	161.6	32.3	11.6
32.5°	328.4	327.9	323.2	313.6	296.6	274.1	250.0	227.5	169.3	28.4	10.5
35°	323.2	323.8	322.9	318.2	305.7	283.6	256.3	231.8	172.3	24.5	9.3
37.5°	313.6	314.5	316.1	316.8	308.8	289.3	260.0	233.6	171.6	20.7	8.6
40°	307.0	306.6	306.6	311.1	309.5	291.8	260.4	232.3	167.5	16.6	8.0
42.5°	307.7	302.7	299.3	306.6	308.8	290.7	257.5	228.6	158.6	12.7	7.3
45°	311.1	300.4	294.5	303.8	307.5	286.8	252.0	223.2	147.3	8.9	7.0
47.5°	298.4	291.3	290.4	303.6	305.0	280.2	243.6	214.5	136.4	6.1	6.6
50°	277.2	276.1	280.9	294.5	294.7	269.3	234.1	198.8	120.0	4.3	6.4
52.5°	270.7	271.3	275.7	282.7	276.1	250.9	216.8	185.7	99.3	3.4	6.1
55°	244.5	245.7	249.8	254.1	249.3	228.4	195.9	169.8	65.7	3.2	5.7
57.5°	184.1	187.0	194.5	198.4	198.8	186.1	177.5	146.4	37.0	3.2	5.5
60°	169.1	165.2	161.8	153.9	146.6	145.0	145.9	109.8	13.6	3.0	5.2
62.5°	88.4	86.6	91.8	95.2	96.1	101.1	94.5	57.9	3.0	3.0	4.8
65°	9.1	9.1	11.1	14.8	24.5	32.7	31.1	16.8	2.0	2.7	4.3
67.5°	2.7	2.7	2.7	3.2	4.1	4.1	3.4	2.5	2.0	2.5	3.9
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.6	1.8	2.3	3.4
72.5°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.6	2.0	3.0
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.6	2.3
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.4	1.8
80°	0.7	0.7	0.7	0.7	0.7	0.9	0.9	0.9	0.9	1.1	1.6
82.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.9	1.1
85°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.7
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):**

	112.5°	135°	157.5°	180°
0°	24.8	24.8	24.8	24.8
2.5°	22.5	20.9	20.0	19.5
5°	20.5	18.4	17.7	17.5
7.5°	18.6	17.3	17.0	17.0
10°	17.5	16.6	16.8	16.8
12.5°	16.8	16.6	16.8	17.0
15°	16.1	16.4	16.8	16.8
17.5°	15.7	16.1	16.6	16.8
20°	15.0	15.9	16.6	16.6
22.5°	14.5	15.7	16.4	16.6
25°	14.1	15.2	16.1	16.6
27.5°	13.4	15.0	16.1	16.4
30°	12.7	14.5	15.9	16.6
32.5°	12.0	14.3	15.9	16.4
35°	11.6	14.1	15.9	16.4
37.5°	11.1	13.9	15.9	16.6
40°	10.9	13.6	15.7	16.6
42.5°	10.5	13.6	15.7	16.6
45°	10.2	13.4	15.7	16.6
47.5°	10.0	13.2	15.7	16.6
50°	9.5	13.0	15.5	16.6
52.5°	9.3	12.7	15.5	16.6
55°	8.9	12.5	15.2	16.4
57.5°	8.6	12.0	15.0	15.9
60°	8.2	11.6	14.5	15.5
62.5°	7.5	10.9	13.9	15.0
65°	6.8	10.0	13.2	14.1
67.5°	6.1	9.3	12.3	13.2
70°	5.5	8.4	11.1	12.0
72.5°	4.8	7.3	10.0	10.7
75°	4.1	6.1	8.4	9.3
77.5°	3.2	5.0	7.0	7.7
80°	2.5	4.1	5.5	5.9
82.5°	2.0	3.0	4.1	4.3
85°	1.4	1.8	2.5	3.0
87.5°	0.7	0.9	1.1	1.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)