

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: P1312154

Luminaire Tested: LDSQA3D02R609050DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

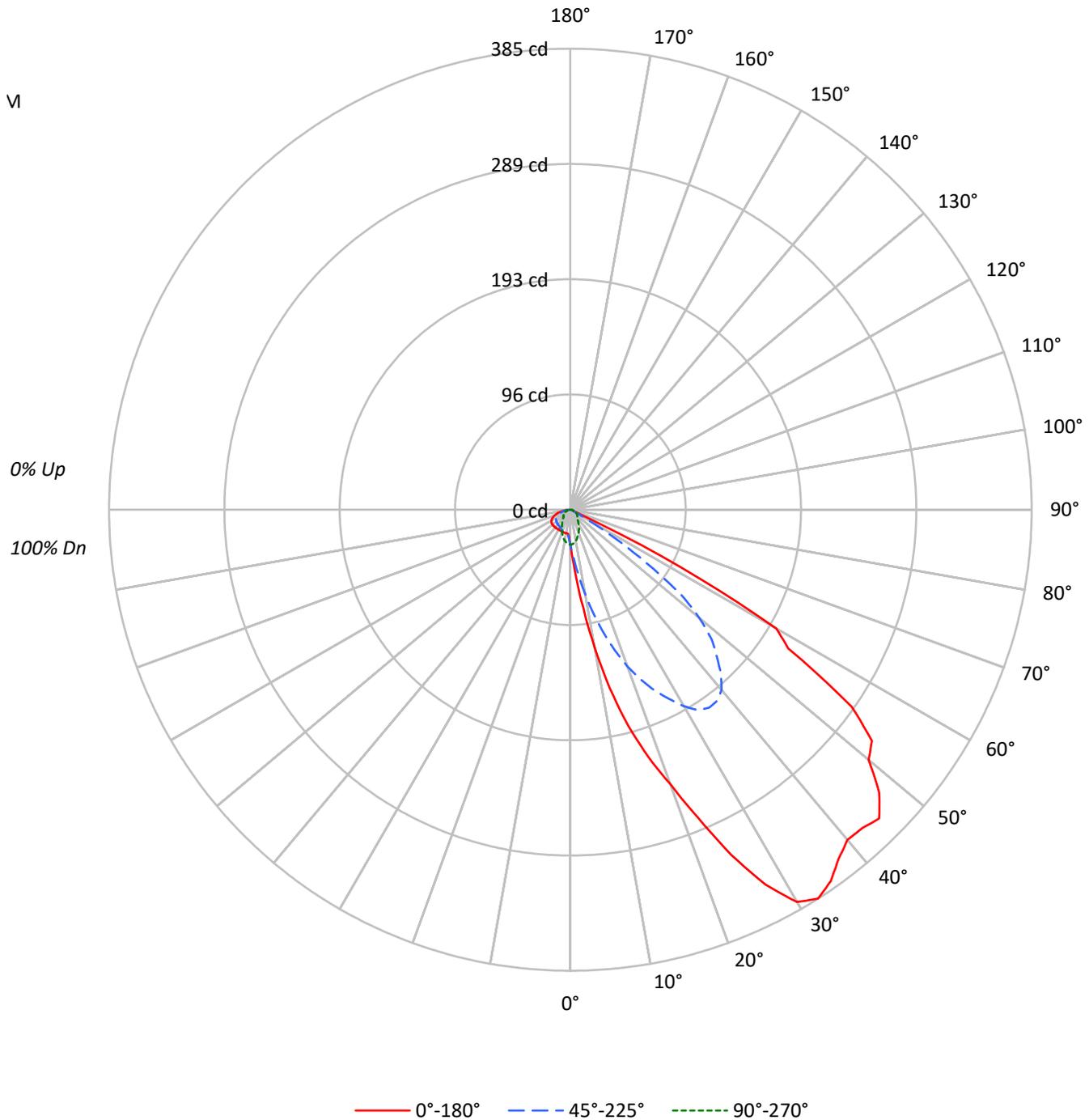
Test Method: LM-79-2019  
Report Number: P1312154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R609050DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R60 optic, 5000K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 293.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 lumens/watt  
Spacing Criteria (0/90/45): 3.39 / 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 (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	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°	4994	4994	4994	4994	4994
5°	9854	7693	4927	3734	3544
10°	20356	12521	4617	3393	3445
15°	33288	18810	4137	3423	3512
20°	44664	25475	3702	3409	3556
25°	60428	31639	3230	3382	3687
30°	75211	37665	2705	3381	3858
35°	79620	42448	2292	3469	4037
40°	80890	44132	2091	3597	4362
45°	88802	42038	2022	3824	4725
50°	87051	37671	2009	4073	5198
55°	86055	23120	2012	4384	5765
60°	68269	5511	2101	4684	6234
65°	4360	978	2078	4768	6724
70°	957	1057	2014	4985	7100
75°	865	1065	1797	4791	7253
80°	793	1091	1884	4761	6843
85°	593	988	2174	4150	6916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 93727 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.6	1.2
10°-20°	18.3	6.2
20°-30°	42.4	14.5
30°-40°	65.9	22.5
40°-50°	75.0	25.6
50°-60°	63.2	21.6
60°-70°	18.3	6.3
70°-80°	4.7	1.6
80°-90°	1.6	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°	64.3	21.9
0°-40°	130.1	44.4
0°-60°	268.4	91.6
0°-90°	293.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	293.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	57	44	28	22	20	7
15°	187	106	23	19	20	54
25°	318	166	17	18	19	148
35°	379	202	11	16	19	235
45°	365	173	8	16	19	274
55°	287	77	7	15	19	241
65°	11	2	5	12	16	53
75°	1	2	3	7	11	1
85°	0	0	1	2	4	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°	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0	29.0
2.5°	39.2	38.9	38.9	38.6	38.4	38.1	37.3	37.0	35.4	32.2	29.0
5°	57.0	56.7	55.9	55.7	54.3	52.5	50.6	48.7	44.5	35.4	28.5
7.5°	82.6	83.1	82.6	79.6	77.8	74.8	69.2	65.3	56.7	38.6	27.4
10°	116.4	116.4	115.6	111.1	107.1	101.5	94.3	87.4	71.6	41.5	26.4
12.5°	153.1	153.9	149.9	146.2	139.0	132.1	122.3	111.9	88.7	43.9	25.0
15°	186.7	186.2	182.2	177.4	169.9	160.3	149.9	136.6	105.5	45.5	23.2
17.5°	216.5	215.5	212.0	206.7	197.6	187.0	173.7	159.3	122.8	46.9	21.8
20°	243.7	240.0	236.0	230.4	221.6	210.4	196.6	180.3	139.0	46.9	20.2
22.5°	278.1	274.3	268.7	260.2	248.5	234.6	218.4	200.0	153.4	45.8	18.6
25°	318.0	315.1	305.5	294.6	279.4	262.9	244.0	219.2	166.5	44.2	17.0
27.5°	352.9	349.7	340.1	324.1	305.8	286.1	266.1	240.8	177.9	41.3	15.2
30°	378.2	374.2	366.8	351.6	329.2	305.2	281.5	257.3	189.4	37.8	13.6
32.5°	384.9	384.3	378.7	367.6	347.6	321.2	293.0	266.6	198.4	33.3	12.3
35°	378.7	379.5	378.5	372.9	358.2	332.4	300.4	271.7	201.9	28.8	10.9
37.5°	367.6	368.6	370.5	371.3	362.0	339.1	304.7	273.8	201.1	24.2	10.1
40°	359.8	359.3	359.3	364.6	362.8	342.0	305.2	272.2	196.3	19.4	9.3
42.5°	360.6	354.8	350.8	359.3	362.0	340.6	301.8	267.9	185.9	14.9	8.5
45°	364.6	352.1	345.2	356.1	360.4	336.1	295.4	261.5	172.6	10.4	8.3
47.5°	349.7	341.4	340.4	355.8	357.4	328.4	285.5	251.4	159.8	7.2	7.7
50°	324.9	323.6	329.2	345.2	345.4	315.6	274.3	233.0	140.6	5.1	7.5
52.5°	317.2	318.0	323.1	331.3	323.6	294.0	254.1	217.6	116.4	4.0	7.2
55°	286.6	287.9	292.7	297.8	292.2	267.7	229.6	199.0	77.0	3.7	6.7
57.5°	215.7	219.2	228.0	232.5	233.0	218.1	208.0	171.5	43.4	3.7	6.4
60°	198.2	193.6	189.6	180.3	171.8	169.9	171.0	128.6	16.0	3.5	6.1
62.5°	103.6	101.5	107.6	111.6	112.7	118.5	110.8	67.9	3.5	3.5	5.6
65°	10.7	10.7	13.1	17.3	28.8	38.4	36.5	19.7	2.4	3.2	5.1
67.5°	3.2	3.2	3.2	3.7	4.8	4.8	4.0	2.9	2.4	2.9	4.5
70°	1.9	1.9	1.9	1.9	1.9	1.9	2.1	1.9	2.1	2.7	4.0
72.5°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	1.9	1.9	2.4	3.5
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.9	2.7
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.6	2.1
80°	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1	1.3	1.9
82.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8	1.1	1.3
85°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	1.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.8
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°	29.0	29.0	29.0	29.0
2.5°	26.4	24.5	23.4	22.9
5°	24.0	21.6	20.8	20.5
7.5°	21.8	20.2	20.0	20.0
10°	20.5	19.4	19.7	19.7
12.5°	19.7	19.4	19.7	20.0
15°	18.9	19.2	19.7	19.7
17.5°	18.4	18.9	19.4	19.7
20°	17.6	18.6	19.4	19.4
22.5°	17.0	18.4	19.2	19.4
25°	16.5	17.8	18.9	19.4
27.5°	15.7	17.6	18.9	19.2
30°	14.9	17.0	18.6	19.4
32.5°	14.1	16.8	18.6	19.2
35°	13.6	16.5	18.6	19.2
37.5°	13.1	16.2	18.6	19.4
40°	12.8	16.0	18.4	19.4
42.5°	12.3	16.0	18.4	19.4
45°	12.0	15.7	18.4	19.4
47.5°	11.7	15.4	18.4	19.4
50°	11.2	15.2	18.1	19.4
52.5°	10.9	14.9	18.1	19.4
55°	10.4	14.6	17.8	19.2
57.5°	10.1	14.1	17.6	18.6
60°	9.6	13.6	17.0	18.1
62.5°	8.8	12.8	16.2	17.6
65°	8.0	11.7	15.4	16.5
67.5°	7.2	10.9	14.4	15.4
70°	6.4	9.9	13.1	14.1
72.5°	5.6	8.5	11.7	12.5
75°	4.8	7.2	9.9	10.9
77.5°	3.7	5.9	8.3	9.1
80°	2.9	4.8	6.4	6.9
82.5°	2.4	3.5	4.8	5.1
85°	1.6	2.1	2.9	3.5
87.5°	0.8	1.1	1.3	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)