

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: P1318867

Luminaire Tested: LDSQA3D02R659835DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

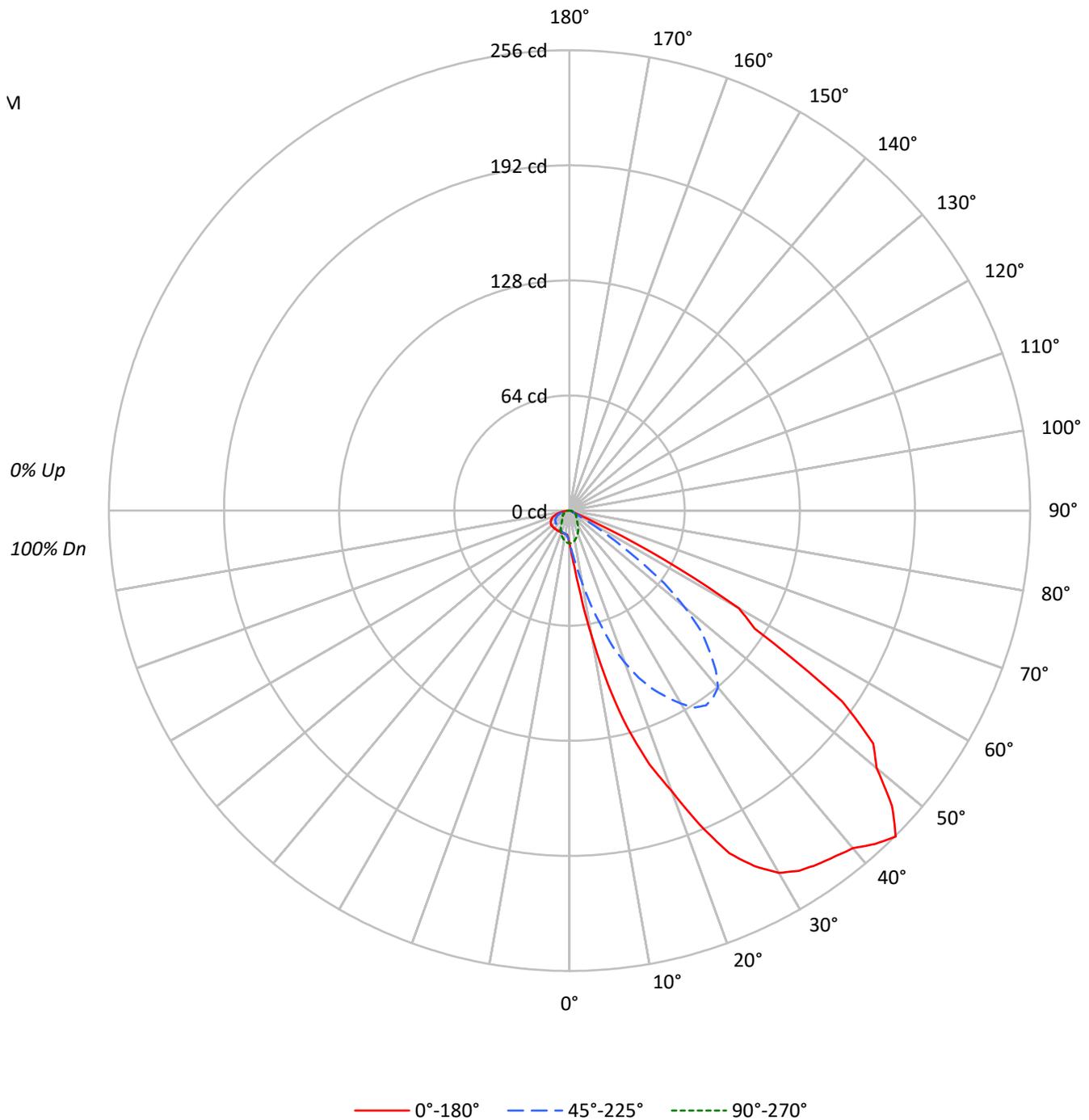
Test Method: LM-79-2019  
Report Number: P1318867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R659835DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 186.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 lumens/watt  
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04  
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	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23	23

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

	0°	45°	90°	135°	180°
0°	3117	3117	3117	3117	3117
5°	5446	4443	3060	2489	2386
10°	12329	7170	2938	2291	2308
15°	22412	11536	2728	2300	2354
20°	30387	16476	2456	2291	2401
25°	39944	20808	2166	2223	2451
30°	46256	24659	1849	2227	2565
35°	50501	27794	1577	2271	2712
40°	55104	28844	1394	2383	2900
45°	62449	26743	1315	2533	3142
50°	59668	22345	1286	2706	3456
55°	55608	12551	1351	2913	3813
60°	37441	2687	1343	3100	4099
65°	5787	693	1304	3179	4483
70°	655	655	1209	3273	4784
75°	599	599	1131	3194	4858
80°	595	694	1091	2975	4761
85°	395	790	1186	2964	4347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 62449 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.2	1.2
10°-20°	11.8	6.4
20°-30°	27.8	14.9
30°-40°	42.0	22.6
40°-50°	48.3	25.9
50°-60°	38.3	20.6
60°-70°	11.5	6.2
70°-80°	3.1	1.7
80°-90°	1.1	0.6
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°	41.8	22.5
0°-40°	83.8	45.0
0°-60°	170.4	91.6
0°-90°	186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	186.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	32	26	18	14	14	4
15°	126	65	15	13	13	36
25°	210	110	11	12	13	96
35°	240	132	8	11	13	151
45°	256	110	5	10	13	190
55°	185	42	4	10	13	153
65°	14	2	3	8	11	32
75°	1	1	2	5	7	1
85°	0	0	1	2	2	0
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°	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1	18.1
2.5°	22.9	23.1	22.9	22.9	22.8	22.6	21.3	19.8	18.1	16.8	15.9
5°	31.5	31.7	31.1	31.1	30.8	30.2	25.7	21.4	17.7	15.7	14.4
7.5°	46.6	47.4	46.4	45.3	43.3	42.9	32.1	23.1	17.3	14.5	13.4
10°	70.5	69.9	69.0	66.8	63.2	61.5	41.0	24.8	16.8	13.8	13.1
12.5°	99.4	97.9	96.8	92.7	87.8	85.0	52.2	26.3	16.0	13.1	12.9
15°	125.7	124.6	122.0	118.1	112.1	109.8	64.7	27.2	15.3	12.5	12.9
17.5°	147.9	146.8	145.3	141.4	135.2	131.9	78.7	27.8	14.4	12.1	12.7
20°	165.8	165.0	163.0	159.8	153.7	150.5	89.9	27.8	13.4	11.7	12.5
22.5°	188.9	187.2	184.6	180.0	172.3	167.5	100.5	27.2	12.5	11.4	12.1
25°	210.2	209.1	205.7	200.1	191.9	187.1	109.5	26.1	11.4	10.8	11.7
27.5°	222.9	222.1	218.9	213.2	204.0	200.3	116.9	24.4	10.3	10.3	11.6
30°	232.6	231.1	227.9	222.3	213.0	208.5	124.0	22.4	9.3	9.7	11.2
32.5°	237.4	236.8	234.1	229.2	220.1	215.0	129.8	19.8	8.2	9.3	11.0
35°	240.2	239.6	237.4	232.7	224.2	219.3	132.2	17.3	7.5	9.0	10.8
37.5°	242.4	241.9	239.1	234.4	225.8	220.8	131.1	14.7	6.7	8.6	10.6
40°	245.1	243.0	238.7	234.1	226.2	221.4	128.3	12.3	6.2	8.4	10.6
42.5°	251.4	244.3	237.6	233.3	225.8	220.3	120.3	9.7	5.6	8.0	10.4
45°	256.4	243.9	235.4	232.0	224.4	218.0	109.8	7.1	5.4	7.8	10.4
47.5°	243.2	235.5	231.6	229.8	221.6	214.7	99.0	4.8	5.2	7.6	10.3
50°	222.7	221.7	220.3	220.4	213.0	207.4	83.4	3.4	4.8	7.5	10.1
52.5°	212.8	211.7	209.1	207.2	199.7	194.9	66.0	2.6	4.7	7.3	9.9
55°	185.2	185.9	183.1	184.3	182.0	179.6	41.8	2.4	4.5	6.9	9.7
57.5°	122.0	125.7	132.2	140.1	147.1	152.0	22.6	2.4	4.1	6.7	9.3
60°	108.7	107.8	107.6	109.1	112.3	114.9	7.8	2.2	3.9	6.2	9.0
62.5°	59.5	59.1	64.7	74.2	79.8	80.4	2.2	2.2	3.5	5.8	8.4
65°	14.2	14.7	16.4	20.5	24.2	26.7	1.7	2.1	3.2	5.4	7.8
67.5°	2.2	2.4	2.4	3.0	3.4	3.4	1.5	1.9	2.8	4.8	7.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.4	4.3	6.5
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.5	2.1	3.7	5.6
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.7	3.0	4.8
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.9	1.1	1.5	2.4	3.9
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.7	0.9	1.1	1.9	3.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.7	0.9	1.5	2.2
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.6	0.9	1.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	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):**

	157.5°	180°
0°	18.1	18.1
2.5°	15.3	15.1
5°	13.8	13.8
7.5°	13.2	13.2
10°	13.1	13.2
12.5°	13.1	13.2
15°	13.1	13.2
17.5°	13.1	13.2
20°	12.9	13.1
22.5°	12.7	12.9
25°	12.5	12.9
27.5°	12.3	12.9
30°	12.3	12.9
32.5°	12.3	12.9
35°	12.1	12.9
37.5°	12.1	12.9
40°	12.1	12.9
42.5°	12.1	12.9
45°	12.1	12.9
47.5°	12.1	12.9
50°	12.1	12.9
52.5°	11.9	12.9
55°	11.9	12.7
57.5°	11.6	12.3
60°	11.2	11.9
62.5°	10.8	11.6
65°	10.3	11.0
67.5°	9.7	10.3
70°	8.8	9.5
72.5°	7.8	8.4
75°	6.7	7.3
77.5°	5.6	6.2
80°	4.5	4.8
82.5°	3.2	3.5
85°	2.1	2.2
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)