

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: P1315526

Luminaire Tested: LDSQA3D09R659735DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

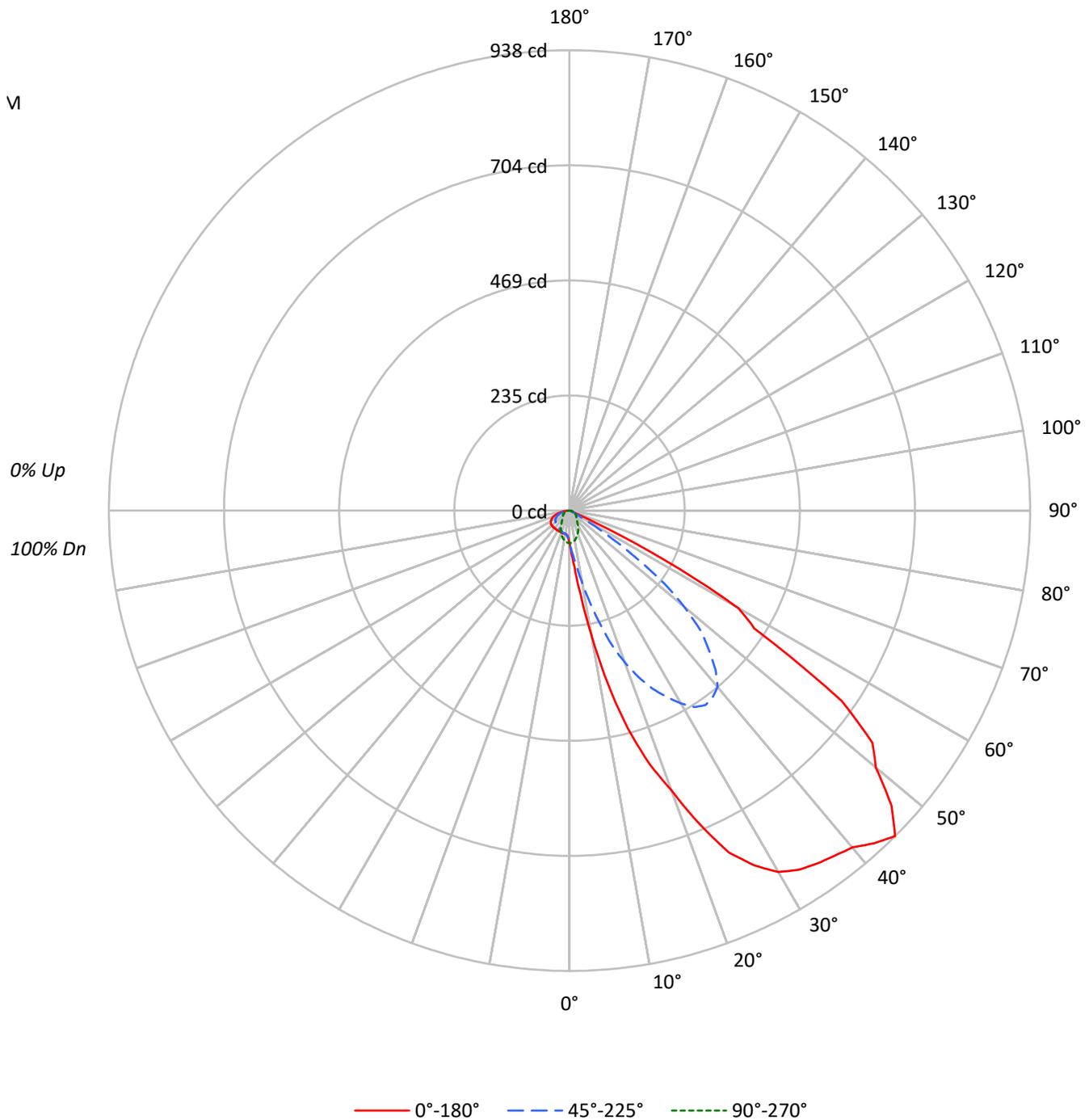
Test Method: LM-79-2019  
Report Number: P1315526  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R659735DE010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 97CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 680.0 lumens  
Efficiency: N/A  
Efficacy: 61.3 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): 11.1  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	23	

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

	0°	45°	90°	135°	180°
0°	11384	11384	11384	11384	11384
5°	19916	16268	11203	9076	8730
10°	45066	26232	10738	8342	8464
15°	81928	42185	9967	8380	8630
20°	111083	60224	8999	8376	8742
25°	146016	76049	7905	8171	8931
30°	169076	90166	6781	8134	9347
35°	184637	101632	5740	8305	9882
40°	201417	105463	5058	8746	10567
45°	228337	97814	4822	9304	11447
50°	218123	81665	4742	9860	12593
55°	203277	45850	4924	10659	13932
60°	136917	9851	4926	11263	15018
65°	21109	2486	4727	11655	16382
70°	2417	2417	4482	12035	17523
75°	2262	2262	4059	11778	17700
80°	1984	2678	4066	10811	17555
85°	1383	2766	3952	10868	16203

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 228337 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.0	1.2
10°-20°	43.2	6.4
20°-30°	101.6	14.9
30°-40°	153.5	22.6
40°-50°	176.4	25.9
50°-60°	140.1	20.6
60°-70°	42.0	6.2
70°-80°	11.4	1.7
80°-90°	3.8	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°	152.8	22.5
0°-40°	306.3	45.0
0°-60°	622.8	91.6
0°-90°	680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	680.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	115	94	65	52	50	15
15°	460	237	56	47	48	132
25°	768	400	42	43	47	351
35°	878	483	27	40	47	551
45°	938	402	20	38	47	696
55°	677	153	16	36	46	558
65°	52	6	12	29	40	116
75°	3	3	6	18	27	4
85°	1	1	2	6	8	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°	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1
2.5°	83.9	84.5	83.9	83.9	83.2	82.5	77.7	72.3	66.1	61.4	58.0
5°	115.2	115.9	113.9	113.9	112.5	110.5	94.1	78.4	64.8	57.3	52.5
7.5°	170.5	173.2	169.8	165.7	158.2	156.8	117.3	84.5	63.4	53.2	49.1
10°	257.7	255.7	252.3	244.1	231.1	225.0	150.0	90.7	61.4	50.5	47.7
12.5°	363.4	358.0	353.9	338.9	321.1	310.9	190.9	96.1	58.6	47.7	47.0
15°	459.5	455.5	445.9	431.6	409.8	401.6	236.6	99.5	55.9	45.7	47.0
17.5°	540.7	536.6	531.1	516.8	494.3	482.0	287.7	101.6	52.5	44.3	46.4
20°	606.1	603.4	595.9	584.3	561.8	550.2	328.6	101.6	49.1	43.0	45.7
22.5°	690.7	684.5	675.0	657.9	630.0	612.3	367.5	99.5	45.7	41.6	44.3
25°	768.4	764.3	752.0	731.6	701.6	683.9	400.2	95.5	41.6	39.5	43.0
27.5°	814.8	812.0	800.4	779.3	745.9	732.3	427.5	89.3	37.5	37.5	42.3
30°	850.2	844.8	833.2	812.7	778.6	762.3	453.4	81.8	34.1	35.5	40.9
32.5°	867.9	865.9	855.7	837.9	804.5	786.1	474.5	72.3	30.0	34.1	40.2
35°	878.2	876.1	867.9	850.9	819.5	801.8	483.4	63.4	27.3	32.7	39.5
37.5°	886.4	884.3	874.1	857.0	825.7	807.3	479.3	53.9	24.5	31.4	38.9
40°	895.9	888.4	872.7	855.7	827.0	809.3	469.1	45.0	22.5	30.7	38.9
42.5°	919.1	893.2	868.6	852.9	825.7	805.2	439.8	35.5	20.5	29.3	38.2
45°	937.5	891.8	860.4	848.2	820.2	797.0	401.6	25.9	19.8	28.6	38.2
47.5°	889.1	861.1	846.8	840.0	810.0	784.8	362.0	17.7	19.1	28.0	37.5
50°	814.1	810.7	805.2	805.9	778.6	758.2	304.8	12.3	17.7	27.3	36.8
52.5°	777.9	773.9	764.3	757.5	730.2	712.5	241.4	9.5	17.0	26.6	36.1
55°	677.0	679.8	669.5	673.6	665.4	656.6	152.7	8.9	16.4	25.2	35.5
57.5°	445.9	459.5	483.4	512.0	537.9	555.7	82.5	8.9	15.0	24.5	34.1
60°	397.5	394.1	393.4	398.9	410.5	420.0	28.6	8.2	14.3	22.5	32.7
62.5°	217.5	216.1	236.6	271.4	291.8	293.9	8.2	8.2	13.0	21.1	30.7
65°	51.8	53.9	60.0	75.0	88.6	97.5	6.1	7.5	11.6	19.8	28.6
67.5°	8.2	8.9	8.9	10.9	12.3	12.3	5.5	6.8	10.2	17.7	26.6
70°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.1	8.9	15.7	23.9
72.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.8	5.5	7.5	13.6	20.5
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.8	6.1	10.9	17.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	3.4	4.1	5.5	8.9	14.3
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.7	3.4	4.1	6.8	10.9
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	5.5	8.2
85°	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.0	3.4	5.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.7
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°	66.1	66.1
2.5°	55.9	55.2
5°	50.5	50.5
7.5°	48.4	48.4
10°	47.7	48.4
12.5°	47.7	48.4
15°	47.7	48.4
17.5°	47.7	48.4
20°	47.0	47.7
22.5°	46.4	47.0
25°	45.7	47.0
27.5°	45.0	47.0
30°	45.0	47.0
32.5°	45.0	47.0
35°	44.3	47.0
37.5°	44.3	47.0
40°	44.3	47.0
42.5°	44.3	47.0
45°	44.3	47.0
47.5°	44.3	47.0
50°	44.3	47.0
52.5°	43.6	47.0
55°	43.6	46.4
57.5°	42.3	45.0
60°	40.9	43.6
62.5°	39.5	42.3
65°	37.5	40.2
67.5°	35.5	37.5
70°	32.0	34.8
72.5°	28.6	30.7
75°	24.5	26.6
77.5°	20.5	22.5
80°	16.4	17.7
82.5°	11.6	13.0
85°	7.5	8.2
87.5°	3.4	3.4
90°	0.0	0.0

(END OF REPORT)