

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: P1310113

Luminaire Tested: LDSQA3D05R659035DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

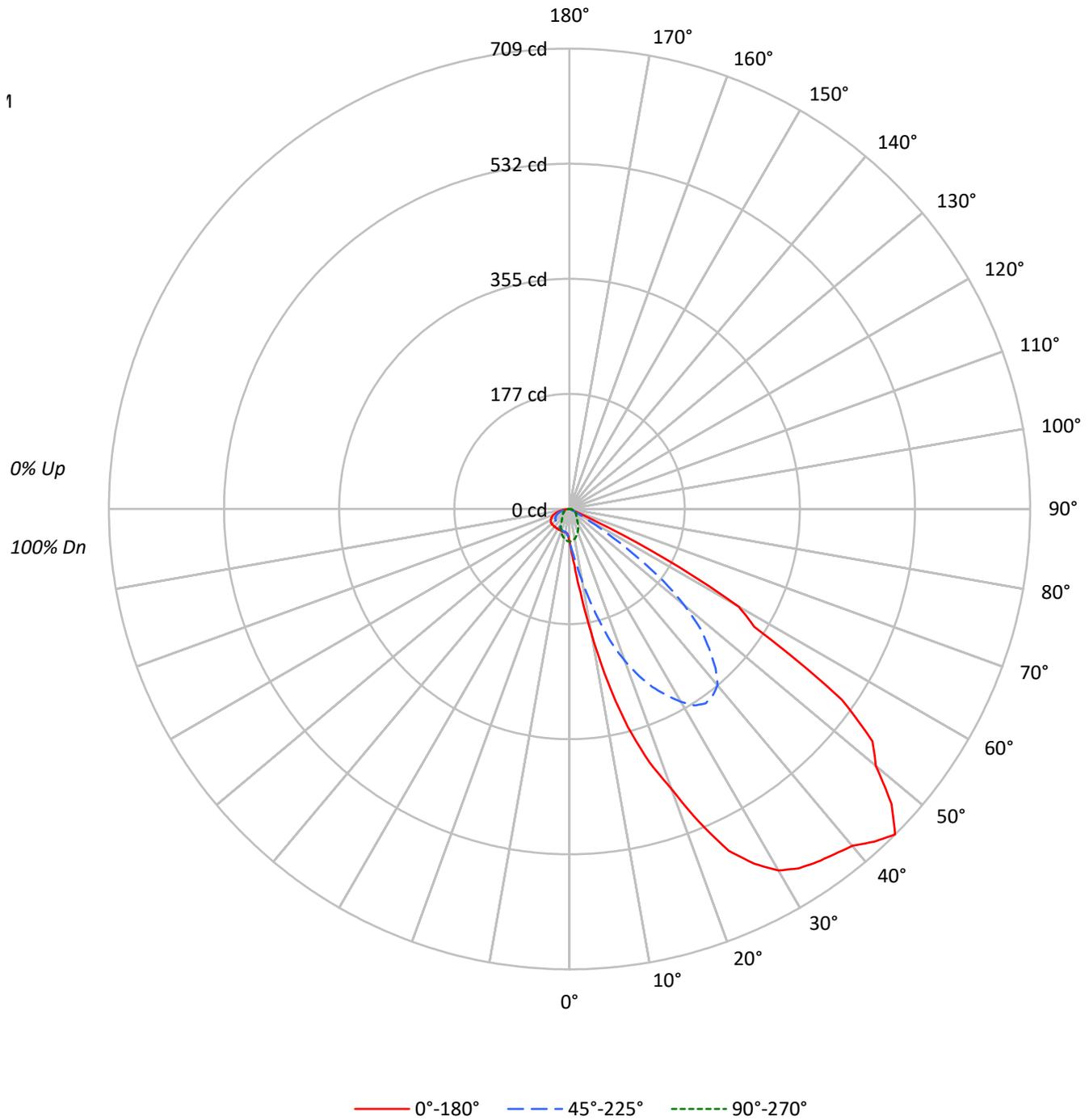
Test Method: LM-79-2019  
Report Number: P1310113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R659035DE010 3LSQCA45R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 514.0 lumens  
Efficiency: N/A  
Efficacy: 71.4 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): 7.2  
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	94	91	92	90	89	89	89	89	87	
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74	
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	65	65	65	62	
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	55	55	55	53	
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45	
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	41	41	41	39	
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	36	36	36	34	
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29	
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	28	28	28	26	
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	24	24	24	23	

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

	0°	45°	90°	135°	180°
0°	8611	8611	8611	8611	8611
5°	15058	12292	8471	6863	6587
10°	34067	19831	8114	6313	6401
15°	61941	31880	7542	6347	6526
20°	83977	45526	6800	6323	6616
25°	110367	57483	5967	6176	6765
30°	127811	68151	5131	6145	7080
35°	139561	76824	4331	6286	7485
40°	152249	79721	3822	6610	8004
45°	172586	73945	3629	7039	8671
50°	164885	61731	3590	7448	9538
55°	153674	34650	3723	8047	10509
60°	103506	7440	3720	8508	11367
65°	15975	1875	3586	8802	12388
70°	1813	1813	3374	9064	13243
75°	1730	1730	3061	8917	13375
80°	1488	2083	3075	8133	13290
85°	988	1976	2964	8102	12251

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 172586 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.1	1.2
10°-20°	32.7	6.4
20°-30°	76.8	14.9
30°-40°	116.0	22.6
40°-50°	133.4	25.9
50°-60°	105.9	20.6
60°-70°	31.7	6.2
70°-80°	8.6	1.7
80°-90°	2.9	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°	115.5	22.5
0°-40°	231.5	45.0
0°-60°	470.8	91.6
0°-90°	514.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	514.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	50	50	50	50	50	
5°	87	71	49	40	38	12
15°	347	179	42	36	37	100
25°	581	302	31	32	36	265
35°	664	365	21	30	36	417
45°	709	304	15	29	36	526
55°	512	115	12	27	35	422
65°	39	5	9	22	30	88
75°	3	3	5	13	20	3
85°	0	1	2	4	6	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°	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
2.5°	63.4	63.9	63.4	63.4	62.9	62.4	58.8	54.6	50.0	46.4	43.8
5°	87.1	87.6	86.1	86.1	85.0	83.5	71.1	59.3	49.0	43.3	39.7
7.5°	128.8	130.9	128.3	125.2	119.6	118.5	88.6	63.9	47.9	40.2	37.1
10°	194.8	193.3	190.7	184.5	174.7	170.1	113.4	68.5	46.4	38.1	36.1
12.5°	274.7	270.6	267.5	256.1	242.7	235.0	144.3	72.7	44.3	36.1	35.6
15°	347.4	344.3	337.1	326.2	309.7	303.6	178.8	75.2	42.3	34.5	35.6
17.5°	408.7	405.6	401.5	390.7	373.6	364.4	217.5	76.8	39.7	33.5	35.0
20°	458.2	456.1	450.4	441.7	424.7	415.9	248.4	76.8	37.1	32.5	34.5
22.5°	522.1	517.4	510.2	497.3	476.2	462.8	277.8	75.2	34.5	31.4	33.5
25°	580.8	577.7	568.5	553.0	530.3	516.9	302.5	72.2	31.4	29.9	32.5
27.5°	615.9	613.8	605.0	589.1	563.8	553.5	323.1	67.5	28.3	28.3	32.0
30°	642.7	638.5	629.8	614.3	588.6	576.2	342.7	61.8	25.8	26.8	30.9
32.5°	656.1	654.5	646.8	633.4	608.1	594.2	358.7	54.6	22.7	25.8	30.4
35°	663.8	662.3	656.1	643.2	619.5	606.1	365.4	47.9	20.6	24.7	29.9
37.5°	670.0	668.4	660.7	647.8	624.1	610.2	362.3	40.7	18.6	23.7	29.4
40°	677.2	671.5	659.7	646.8	625.1	611.7	354.6	34.0	17.0	23.2	29.4
42.5°	694.7	675.1	656.6	644.7	624.1	608.7	332.4	26.8	15.5	22.2	28.9
45°	708.6	674.1	650.4	641.1	620.0	602.5	303.6	19.6	14.9	21.6	28.9
47.5°	672.0	650.9	640.1	634.9	612.3	593.2	273.7	13.4	14.4	21.1	28.3
50°	615.4	612.8	608.7	609.2	588.6	573.1	230.4	9.3	13.4	20.6	27.8
52.5°	588.0	584.9	577.7	572.6	552.0	538.6	182.4	7.2	12.9	20.1	27.3
55°	511.8	513.8	506.1	509.2	503.0	496.3	115.4	6.7	12.4	19.1	26.8
57.5°	337.1	347.4	365.4	387.0	406.6	420.0	62.4	6.7	11.3	18.6	25.8
60°	300.5	297.9	297.4	301.5	310.3	317.5	21.6	6.2	10.8	17.0	24.7
62.5°	164.4	163.4	178.8	205.1	220.6	222.1	6.2	6.2	9.8	16.0	23.2
65°	39.2	40.7	45.4	56.7	67.0	73.7	4.6	5.7	8.8	14.9	21.6
67.5°	6.2	6.7	6.7	8.2	9.3	9.3	4.1	5.2	7.7	13.4	20.1
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.6	6.7	11.9	18.0
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.6	4.1	5.7	10.3	15.5
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.6	4.6	8.2	13.4
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.1	4.1	6.7	10.8
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.6	3.1	5.2	8.2
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	2.1	2.6	4.1	6.2
85°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	1.5	2.6	4.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5	2.1
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°	50.0	50.0
2.5°	42.3	41.7
5°	38.1	38.1
7.5°	36.6	36.6
10°	36.1	36.6
12.5°	36.1	36.6
15°	36.1	36.6
17.5°	36.1	36.6
20°	35.6	36.1
22.5°	35.0	35.6
25°	34.5	35.6
27.5°	34.0	35.6
30°	34.0	35.6
32.5°	34.0	35.6
35°	33.5	35.6
37.5°	33.5	35.6
40°	33.5	35.6
42.5°	33.5	35.6
45°	33.5	35.6
47.5°	33.5	35.6
50°	33.5	35.6
52.5°	33.0	35.6
55°	33.0	35.0
57.5°	32.0	34.0
60°	30.9	33.0
62.5°	29.9	32.0
65°	28.3	30.4
67.5°	26.8	28.3
70°	24.2	26.3
72.5°	21.6	23.2
75°	18.6	20.1
77.5°	15.5	17.0
80°	12.4	13.4
82.5°	8.8	9.8
85°	5.7	6.2
87.5°	2.6	2.6
90°	0.0	0.0

(END OF REPORT)