

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: P1325404

Luminaire Tested: LDSQA3D05R55W2N902765DE010 3LSQCA45R 1MB\_3500K

Issue Date: 1/29/2026

**Test Information**

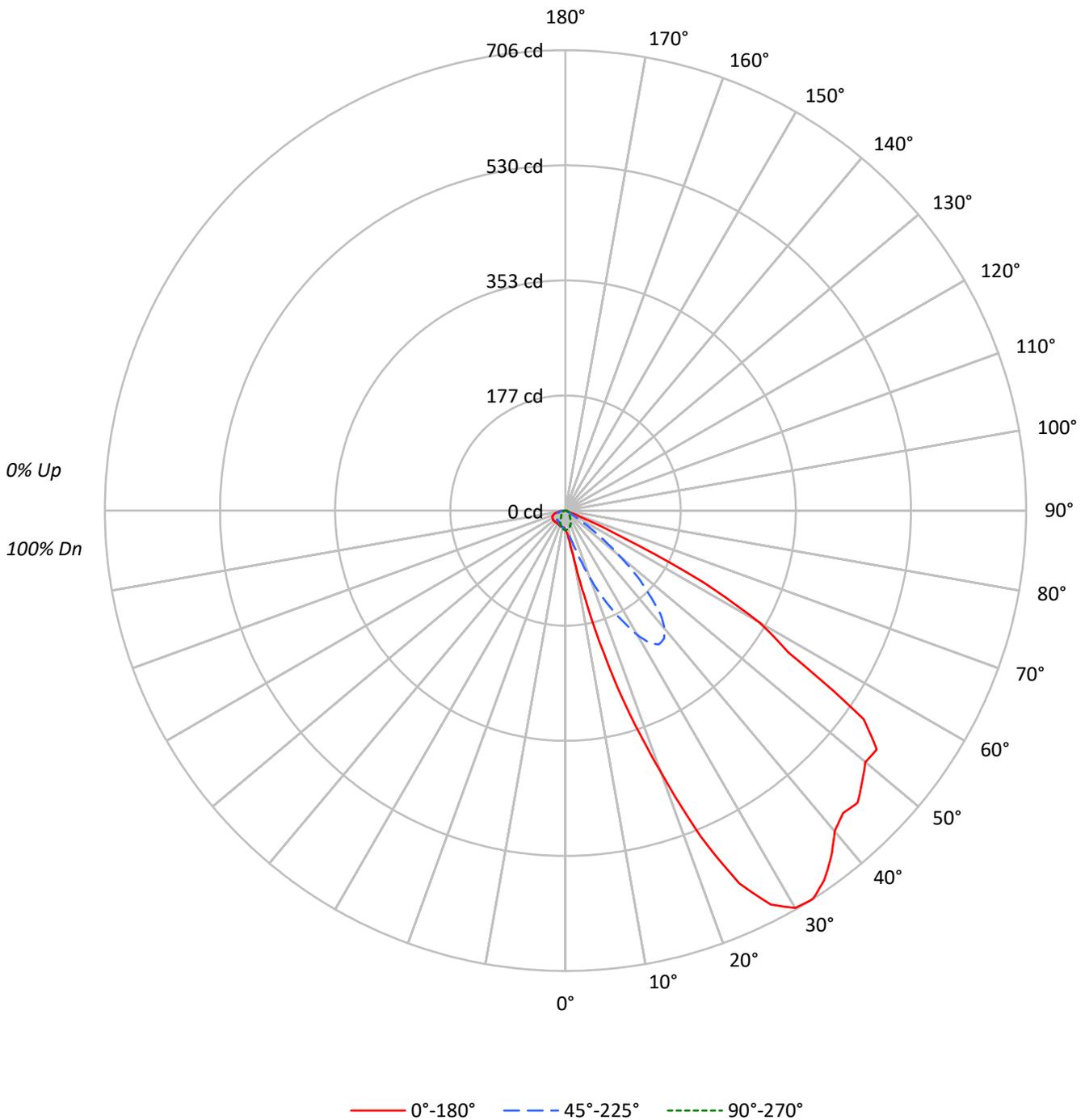
Test Method: LM-79-2019  
Report Number: P1325404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R55W2N902765DE010 3LSQCA45R 1MB\_3500K  
Description: 3in Adjustable Tunable White LED luminaire with, R55 optic, 3500K CCT AND, 90CRI ,  
3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 454.0 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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	107	104	100	97	99	97	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	54	54	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	46	46	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	39	39	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	34	34	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	29	29	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	26	26	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	23	23	23	21

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

	0°	45°	90°	135°	180°
0°	5046	5046	5046	5046	5046
5°	6448	5895	5065	4720	4581
10°	13116	7502	4914	4494	4494
15°	40260	11518	4582	4368	4511
20°	77855	20142	4124	4270	4490
25°	119831	31335	3592	4124	4504
30°	139922	43790	2943	4077	4634
35°	145405	52624	2439	4058	4815
40°	144290	53125	2248	4249	5238
45°	154271	43963	2143	4603	5675
50°	160785	29017	2143	4957	6350
55°	167426	12641	2162	5435	6996
60°	118283	2893	2204	5924	7888
65°	38592	978	2119	6357	8843
70°	1209	1007	2216	6848	10121
75°	1065	1065	1863	7187	11179
80°	793	1190	1984	7141	11901
85°	790	1581	2371	7114	11856

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 170112 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	3.1	0.7
10°-20°	19.3	4.2
20°-30°	64.6	14.2
30°-40°	106.1	23.4
40°-50°	118.4	26.1
50°-60°	99.6	21.9
60°-70°	33.8	7.4
70°-80°	6.6	1.5
80°-90°	2.5	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°	87.0	19.2
0°-40°	193.1	42.5
0°-60°	411.1	90.6
0°-90°	454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	37	34	29	27	26	5
15°	226	65	26	24	25	72
25°	631	165	19	22	24	283
35°	692	250	12	19	23	429
45°	633	180	9	19	23	484
55°	558	42	7	18	23	454
65°	95	2	5	16	22	128
75°	2	2	3	11	17	2
85°	0	1	1	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°	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3
2.5°	32.1	32.1	32.1	32.1	32.1	32.1	31.7	30.5	29.7	28.5	28.1
5°	37.3	37.3	37.3	36.9	36.9	36.1	34.1	31.3	29.3	27.7	27.3
7.5°	48.1	47.7	46.9	46.5	45.3	44.9	37.7	32.1	28.9	26.9	26.5
10°	75.0	74.2	73.0	68.6	64.6	61.8	42.9	32.5	28.1	26.1	25.7
12.5°	135.2	133.6	127.6	118.3	107.1	101.5	51.3	32.9	26.9	25.3	25.3
15°	225.8	223.8	212.6	199.8	179.3	168.1	64.6	32.5	25.7	24.1	24.5
17.5°	326.1	320.5	308.9	292.0	264.3	251.1	84.2	31.7	24.1	23.3	24.1
20°	424.8	423.2	403.9	381.1	347.0	329.3	109.9	30.5	22.5	22.1	23.3
22.5°	540.3	533.5	513.1	488.6	441.7	418.4	137.6	28.9	20.9	20.9	22.5
25°	630.6	622.6	606.5	578.0	533.5	508.6	164.9	26.9	18.9	19.7	21.7
27.5°	681.1	671.9	659.9	635.4	600.9	578.8	192.1	24.5	16.8	18.5	20.9
30°	703.6	701.2	692.4	674.3	642.6	623.0	220.2	21.7	14.8	17.2	20.5
32.5°	706.0	707.2	703.6	692.0	667.9	651.0	241.1	19.3	13.2	16.4	19.7
35°	691.6	696.0	698.4	693.6	677.9	664.3	250.3	16.4	11.6	15.6	19.3
37.5°	669.1	677.1	685.1	686.3	676.7	667.9	247.9	14.0	10.8	15.2	19.3
40°	641.8	649.0	665.5	675.9	672.7	666.3	236.3	11.6	10.0	14.4	18.9
42.5°	629.4	631.0	648.6	666.3	665.5	660.3	215.8	9.2	9.2	14.4	18.9
45°	633.4	626.2	637.8	658.3	657.1	650.2	180.5	7.2	8.8	14.0	18.9
47.5°	616.5	606.5	626.2	650.2	645.8	635.8	149.2	5.2	8.4	13.6	18.5
50°	600.1	598.5	613.7	625.8	619.8	614.1	108.3	4.0	8.0	13.2	18.5
52.5°	601.3	598.5	600.1	599.7	587.7	581.6	74.2	3.2	7.6	12.8	18.5
55°	557.6	548.8	540.3	542.7	543.5	539.5	42.1	2.8	7.2	12.8	18.1
57.5°	405.1	402.7	412.0	438.0	458.5	460.9	20.5	2.8	6.8	12.4	17.6
60°	343.4	341.8	342.2	349.8	360.6	353.8	8.4	2.8	6.4	12.0	17.2
62.5°	236.7	252.3	258.7	276.4	269.2	259.5	3.2	3.2	6.0	11.2	16.8
65°	94.7	94.3	103.1	111.5	109.1	101.9	2.4	2.8	5.2	10.4	15.6
67.5°	22.1	20.1	17.2	14.8	12.4	10.0	2.4	2.8	4.8	9.6	14.8
70°	2.4	2.4	2.4	2.4	2.4	2.0	2.0	2.8	4.4	8.8	13.6
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.6	7.6	12.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.8	6.4	10.8
77.5°	1.2	1.2	1.2	1.6	1.2	1.6	1.6	2.0	2.4	5.2	9.2
80°	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	2.0	4.4	7.2
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	3.2	5.2
85°	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	2.4	3.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2	1.2	1.6
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°	29.3	29.3
2.5°	27.7	27.7
5°	26.9	26.5
7.5°	26.1	26.1
10°	25.7	25.7
12.5°	25.3	25.7
15°	25.3	25.3
17.5°	24.5	24.9
20°	24.1	24.5
22.5°	23.7	24.1
25°	23.3	23.7
27.5°	22.9	23.3
30°	22.5	23.3
32.5°	22.1	22.9
35°	22.1	22.9
37.5°	22.1	23.3
40°	22.1	23.3
42.5°	22.1	23.3
45°	22.1	23.3
47.5°	22.1	23.3
50°	22.1	23.7
52.5°	22.1	23.7
55°	22.1	23.3
57.5°	21.7	23.3
60°	21.7	22.9
62.5°	21.3	22.5
65°	20.5	21.7
67.5°	19.7	21.3
70°	18.5	20.1
72.5°	17.2	18.5
75°	15.6	16.8
77.5°	13.6	14.4
80°	10.8	12.0
82.5°	8.4	9.2
85°	5.6	6.0
87.5°	2.4	2.8
90°	0.0	0.0

(END OF REPORT)