

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: P1325462

Luminaire Tested: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MMS\_5000K

Issue Date: 1/29/2026

**Test Information**

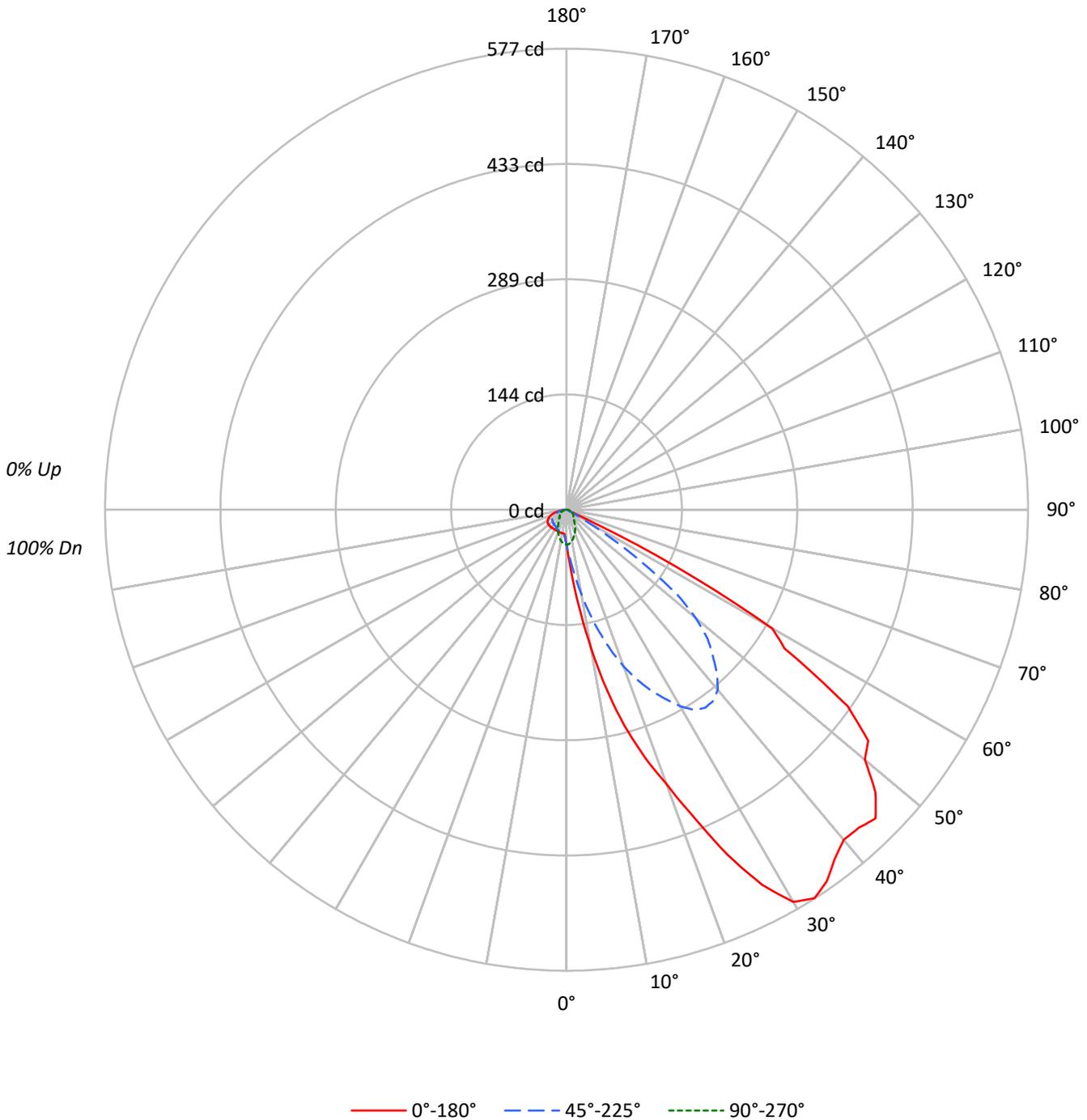
Test Method: LM-79-2019  
Report Number: P1325462  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MMS\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 74.4 lumens/watt  
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07  
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
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	93	91	92	90	89	89	87	
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	74	
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	62	
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	53	
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	45	
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	39	
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	33	
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	29	
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	25	
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	22	

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

	0°	45°	90°	135°	180°
0°	7492	7492	7492	7492	7492
5°	14764	11514	7382	5584	5307
10°	30499	18765	6908	5089	5159
15°	49870	28171	6187	5117	5260
20°	66914	38176	5553	5113	5333
25°	90548	47393	4846	5074	5530
30°	112697	56418	4057	5071	5787
35°	119314	63599	3448	5193	6034
40°	121201	66120	3147	5373	6542
45°	133057	62985	3020	5724	7088
50°	130429	56453	3001	6082	7797
55°	128932	34620	3003	6576	8617
60°	102266	8232	3169	7027	9334
65°	6520	1467	3097	7172	10066
70°	1410	1611	3021	7452	10675
75°	1331	1597	2662	7187	10913
80°	1190	1587	2777	7141	10315
85°	790	1581	3162	6323	10275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 52.5°  
 Luminance: 140435 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.4	1.2
10°-20°	27.4	6.2
20°-30°	63.5	14.5
30°-40°	98.7	22.5
40°-50°	112.4	25.6
50°-60°	94.7	21.6
60°-70°	27.5	6.3
70°-80°	7.1	1.6
80°-90°	2.4	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°	96.3	21.9
0°-40°	194.9	44.4
0°-60°	402.1	91.6
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	85	67	43	32	31	11
15°	280	158	35	29	30	81
25°	476	249	26	27	29	221
35°	568	302	16	25	29	353
45°	546	259	12	24	29	411
55°	429	115	10	22	29	361
65°	16	4	8	18	25	79
75°	2	2	4	11	16	2
85°	0	1	2	3	5	1
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°	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5	43.5
2.5°	58.7	58.3	58.3	57.9	57.5	57.1	55.9	55.5	53.1	48.3	43.5
5°	85.4	85.0	83.8	83.4	81.4	78.6	75.8	73.0	66.6	53.1	42.7
7.5°	123.7	124.5	123.7	119.3	116.5	112.1	103.8	97.8	85.0	57.9	41.1
10°	174.4	174.4	173.2	166.4	160.4	152.0	141.3	130.9	107.3	62.3	39.5
12.5°	229.5	230.7	224.7	219.1	208.3	197.9	183.2	167.6	132.9	65.8	37.5
15°	279.7	278.9	273.0	265.8	254.6	240.2	224.7	204.7	158.0	68.2	34.7
17.5°	324.4	322.8	317.6	309.7	296.1	280.1	260.2	238.6	184.0	70.2	32.7
20°	365.1	359.6	353.6	345.2	332.0	315.3	294.5	270.2	208.3	70.2	30.3
22.5°	416.6	411.0	402.6	389.9	372.3	351.6	327.2	299.7	229.9	68.6	27.9
25°	476.5	472.1	457.7	441.4	418.6	393.9	365.5	328.4	249.4	66.2	25.5
27.5°	528.8	524.0	509.6	485.7	458.1	428.6	398.7	360.7	266.6	61.9	22.7
30°	566.7	560.7	549.5	526.8	493.2	457.3	421.8	385.5	283.7	56.7	20.4
32.5°	576.6	575.8	567.5	550.7	520.8	481.3	439.0	399.5	297.3	49.9	18.4
35°	567.5	568.7	567.1	558.7	536.7	498.0	450.1	407.0	302.5	43.1	16.4
37.5°	550.7	552.3	555.1	556.3	542.3	508.0	456.5	410.2	301.3	36.3	15.2
40°	539.1	538.3	538.3	546.3	543.5	512.4	457.3	407.8	294.1	29.1	14.0
42.5°	540.3	531.5	525.6	538.3	542.3	510.4	452.1	401.5	278.5	22.3	12.8
45°	546.3	527.6	517.2	533.5	539.9	503.6	442.6	391.9	258.6	15.6	12.4
47.5°	524.0	511.6	510.0	533.1	535.5	492.0	427.8	376.7	239.4	10.8	11.6
50°	486.8	484.9	493.2	517.2	517.6	472.9	411.0	349.2	210.7	7.6	11.2
52.5°	475.3	476.5	484.1	496.4	484.9	440.6	380.7	326.0	174.4	6.0	10.8
55°	429.4	431.4	438.6	446.1	437.8	401.1	344.0	298.1	115.3	5.6	10.0
57.5°	323.2	328.4	341.6	348.4	349.2	326.8	311.7	257.0	65.0	5.6	9.6
60°	296.9	290.1	284.1	270.2	257.4	254.6	256.2	192.7	23.9	5.2	9.2
62.5°	155.2	152.0	161.2	167.2	168.8	177.6	166.0	101.8	5.2	5.2	8.4
65°	16.0	16.0	19.6	25.9	43.1	57.5	54.7	29.5	3.6	4.8	7.6
67.5°	4.8	4.8	4.8	5.6	7.2	7.2	6.0	4.4	3.6	4.4	6.8
70°	2.8	2.8	2.8	2.8	2.8	2.8	3.2	2.8	3.2	4.0	6.0
72.5°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8	3.6	5.2
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.8	4.0
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.4	3.2
80°	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	2.0	2.8
82.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
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°	43.5	43.5	43.5	43.5
2.5°	39.5	36.7	35.1	34.3
5°	35.9	32.3	31.1	30.7
7.5°	32.7	30.3	29.9	29.9
10°	30.7	29.1	29.5	29.5
12.5°	29.5	29.1	29.5	29.9
15°	28.3	28.7	29.5	29.5
17.5°	27.5	28.3	29.1	29.5
20°	26.3	27.9	29.1	29.1
22.5°	25.5	27.5	28.7	29.1
25°	24.7	26.7	28.3	29.1
27.5°	23.5	26.3	28.3	28.7
30°	22.3	25.5	27.9	29.1
32.5°	21.2	25.1	27.9	28.7
35°	20.4	24.7	27.9	28.7
37.5°	19.6	24.3	27.9	29.1
40°	19.2	23.9	27.5	29.1
42.5°	18.4	23.9	27.5	29.1
45°	18.0	23.5	27.5	29.1
47.5°	17.6	23.1	27.5	29.1
50°	16.8	22.7	27.1	29.1
52.5°	16.4	22.3	27.1	29.1
55°	15.6	21.9	26.7	28.7
57.5°	15.2	21.2	26.3	27.9
60°	14.4	20.4	25.5	27.1
62.5°	13.2	19.2	24.3	26.3
65°	12.0	17.6	23.1	24.7
67.5°	10.8	16.4	21.5	23.1
70°	9.6	14.8	19.6	21.2
72.5°	8.4	12.8	17.6	18.8
75°	7.2	10.8	14.8	16.4
77.5°	5.6	8.8	12.4	13.6
80°	4.4	7.2	9.6	10.4
82.5°	3.6	5.2	7.2	7.6
85°	2.4	3.2	4.4	5.2
87.5°	1.2	1.6	2.0	2.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)