

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: P1325510

Luminaire Tested: LDSQA3D05R60W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325510
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: LDSQA3D05R60W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

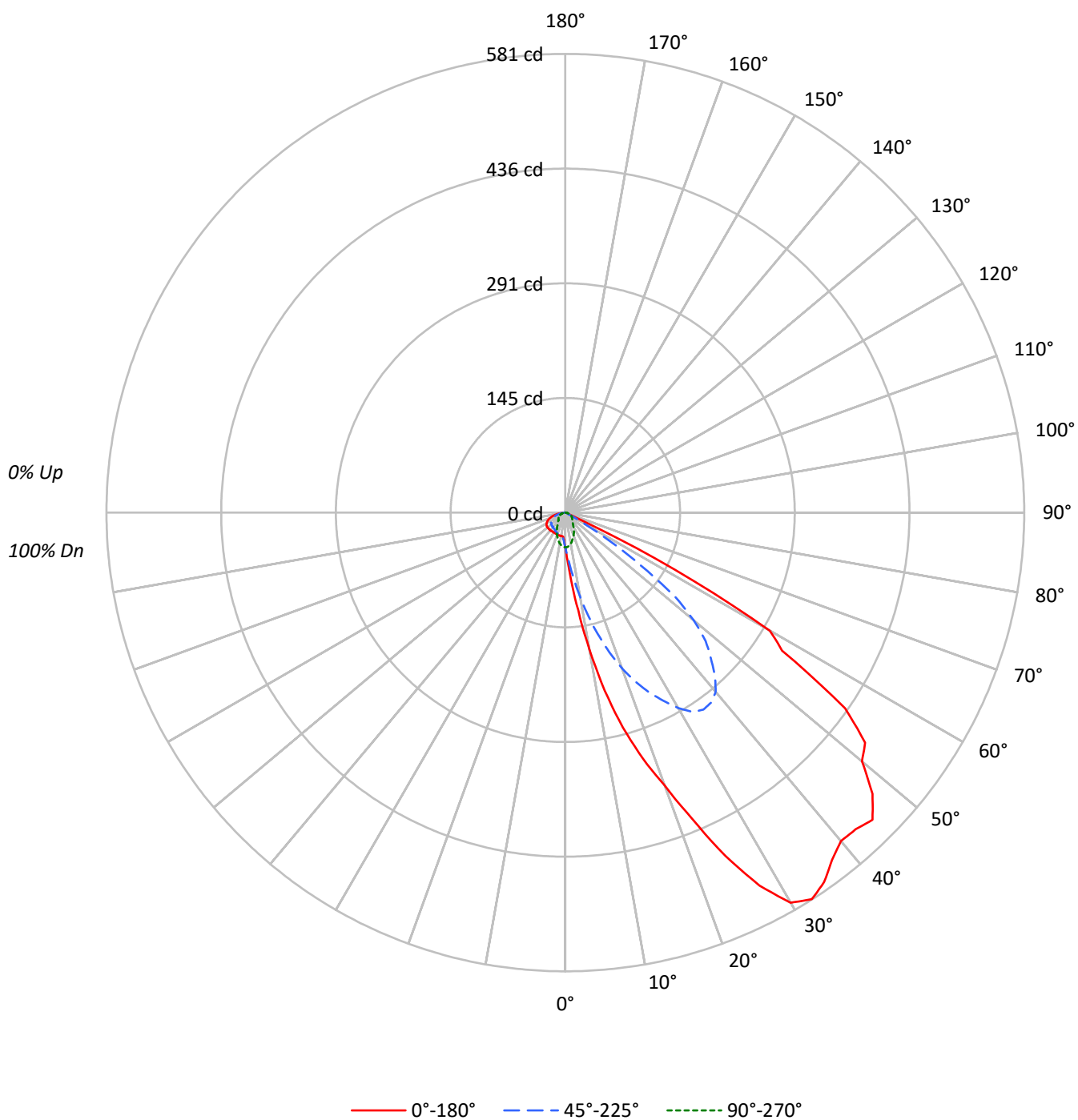
Lumens per Lamp: N/A
Luminaire Lumens: 442.0 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7543	7543	7543	7543	7543
5°	14868	11600	7434	5619	5342
10°	30709	18904	6960	5124	5194
15°	50227	28367	6240	5153	5295
20°	67372	38433	5590	5150	5370
25°	91156	47716	4884	5112	5568
30°	113453	56816	4077	5111	5827
35°	120113	64041	3469	5235	6076
40°	122033	66569	3170	5418	6587
45°	133958	63423	3044	5772	7136
50°	131340	56828	3001	6136	7850
55°	129803	34860	3003	6636	8678
60°	102955	8301	3169	7061	9403
65°	6561	1467	3097	7213	10147
70°	1410	1611	3021	7503	10726
75°	1331	1597	2662	7187	10979
80°	1190	1587	2777	7141	10315
85°	790	1581	3162	6323	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 141397 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.5	1.2
10°-20°	27.5	6.2
20°-30°	63.9	14.5
30°-40°	99.4	22.5
40°-50°	113.2	25.6
50°-60°	95.3	21.6
60°-70°	27.7	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°	96.9	21.9
0°-40°	196.3	44.4
0°-60°	404.8	91.6
0°-90°	442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	442.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	44	44	44	44	44	
5°	86	67	43	32	31	11
15°	282	159	35	29	30	82
25°	480	251	26	27	29	223
35°	571	305	16	25	29	355
45°	550	260	12	24	29	413
55°	432	116	10	22	29	364
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°	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8	43.8
2.5°	59.1	58.7	58.7	58.3	57.9	57.5	56.2	55.8	53.4	48.6	43.8
5°	86.0	85.6	84.4	84.0	82.0	79.2	76.3	73.5	67.1	53.4	43.0
7.5°	124.6	125.4	124.6	120.1	117.3	112.9	104.5	98.4	85.6	58.3	41.4
10°	175.6	175.6	174.4	167.5	161.5	153.1	142.2	131.8	108.1	62.7	39.8
12.5°	231.0	232.2	226.2	220.6	209.7	199.3	184.4	168.7	133.8	66.3	37.8
15°	281.7	280.8	274.8	267.6	256.3	241.9	226.2	206.1	159.1	68.7	35.0
17.5°	326.7	325.0	319.8	311.8	298.1	282.1	262.0	240.3	185.2	70.7	32.9
20°	367.6	362.0	356.0	347.5	334.3	317.4	296.5	272.0	209.7	70.7	30.5
22.5°	419.5	413.8	405.4	392.5	374.9	354.0	329.5	301.7	231.4	69.1	28.1
25°	479.7	475.3	460.8	444.4	421.5	396.6	368.0	330.7	251.1	66.7	25.7
27.5°	532.4	527.5	513.1	489.0	461.2	431.5	401.4	363.2	268.4	62.3	22.9
30°	570.5	564.5	553.3	530.4	496.6	460.4	424.7	388.1	285.7	57.1	20.5
32.5°	580.6	579.8	571.3	554.5	524.3	484.6	442.0	402.2	299.3	50.2	18.5
35°	571.3	572.5	570.9	562.5	540.4	501.4	453.2	409.8	304.6	43.4	16.5
37.5°	554.5	556.1	558.9	560.1	546.0	511.5	459.6	413.0	303.3	36.6	15.3
40°	542.8	542.0	542.0	550.0	547.2	515.9	460.4	410.6	296.1	29.3	14.1
42.5°	544.0	535.2	529.1	542.0	546.0	513.9	455.2	404.2	280.4	22.5	12.9
45°	550.0	531.2	520.7	537.2	543.6	507.1	445.6	394.6	260.4	15.7	12.5
47.5°	527.5	515.1	513.5	536.8	539.2	495.4	430.7	379.3	241.1	10.8	11.7
50°	490.2	488.2	496.6	520.7	521.1	476.1	413.8	351.6	212.1	7.6	11.2
52.5°	478.5	479.7	487.4	499.8	488.2	443.6	383.3	328.3	175.6	6.0	10.8
55°	432.3	434.3	441.6	449.2	440.8	403.8	346.3	300.1	116.1	5.6	10.0
57.5°	325.4	330.7	343.9	350.8	351.6	329.1	313.8	258.7	65.5	5.6	9.6
60°	298.9	292.1	286.1	272.0	259.2	256.3	257.9	194.1	24.1	5.2	9.2
62.5°	156.3	153.1	162.3	168.3	170.0	178.8	167.1	102.5	5.2	5.2	8.4
65°	16.1	16.1	19.7	26.1	43.4	57.9	55.0	29.7	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°	43.8	43.8	43.8	43.8
2.5°	39.8	37.0	35.4	34.6
5°	36.2	32.5	31.3	30.9
7.5°	32.9	30.5	30.1	30.1
10°	30.9	29.3	29.7	29.7
12.5°	29.7	29.3	29.7	30.1
15°	28.5	28.9	29.7	29.7
17.5°	27.7	28.5	29.3	29.7
20°	26.5	28.1	29.3	29.3
22.5°	25.7	27.7	28.9	29.3
25°	24.9	26.9	28.5	29.3
27.5°	23.7	26.5	28.5	28.9
30°	22.5	25.7	28.1	29.3
32.5°	21.3	25.3	28.1	28.9
35°	20.5	24.9	28.1	28.9
37.5°	19.7	24.5	28.1	29.3
40°	19.3	24.1	27.7	29.3
42.5°	18.5	24.1	27.7	29.3
45°	18.1	23.7	27.7	29.3
47.5°	17.7	23.3	27.7	29.3
50°	16.9	22.9	27.3	29.3
52.5°	16.5	22.5	27.3	29.3
55°	15.7	22.1	26.9	28.9
57.5°	15.3	21.3	26.5	28.1
60°	14.5	20.5	25.7	27.3
62.5°	13.3	19.3	24.5	26.5
65°	12.1	17.7	23.3	24.9
67.5°	10.8	16.5	21.7	23.3
70°	9.6	14.9	19.7	21.3
72.5°	8.4	12.9	17.7	18.9
75°	7.2	10.8	14.9	16.5
77.5°	5.6	8.8	12.5	13.7
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)