

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: P1327117

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327117
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: LDSQA3D09R60W2N902765DE010 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

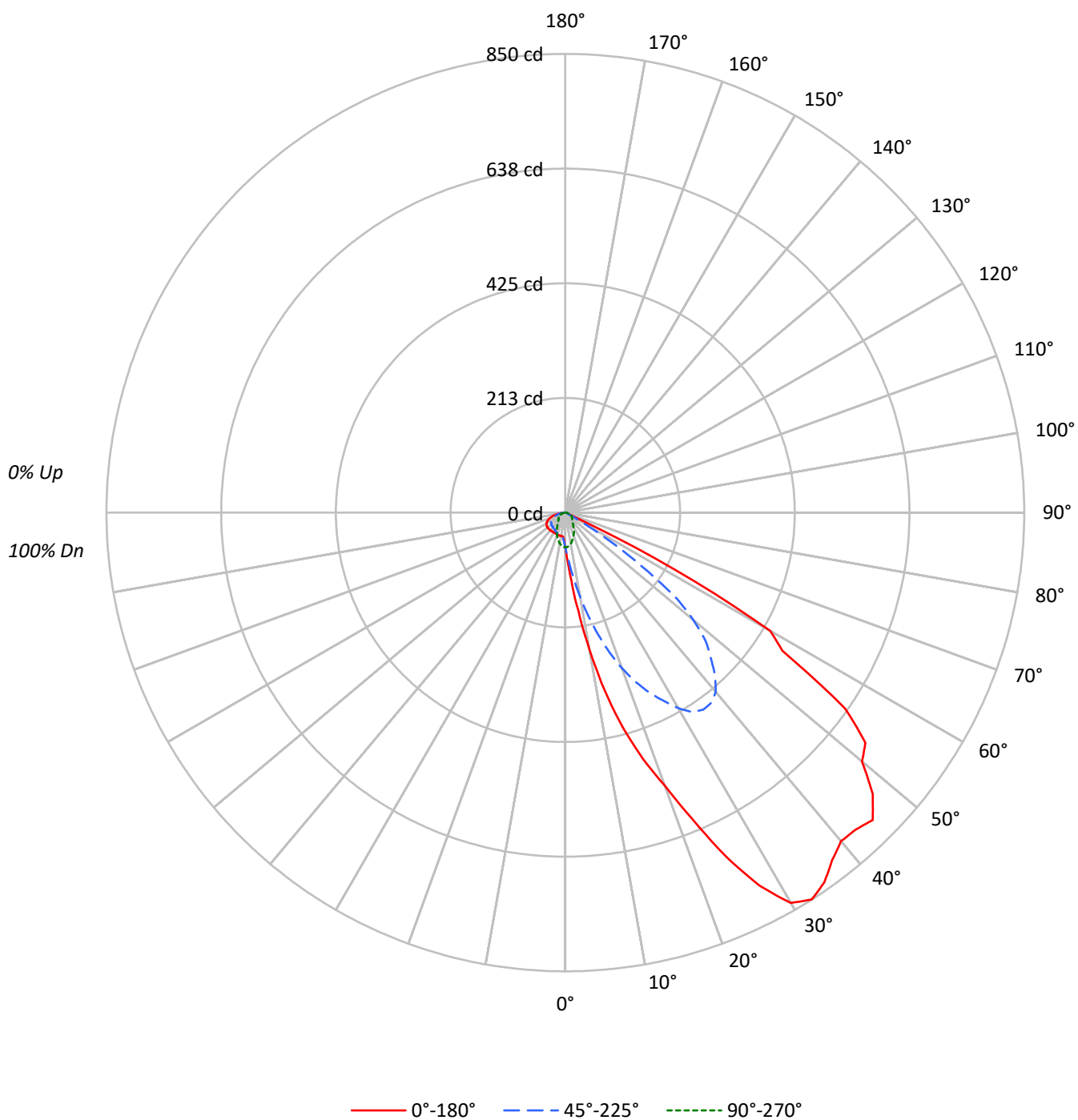
Lumens per Lamp: N/A
Luminaire Lumens: 647.0 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11039	11039	11039	11039	11039
5°	21766	16977	10874	8229	7831
10°	44944	27666	10178	7502	7607
15°	73512	41526	9129	7542	7756
20°	98621	56266	8192	7551	7863
25°	133437	69854	7145	7487	8152
30°	166073	83166	5966	7477	8531
35°	175828	93727	5067	7674	8893
40°	178643	97460	4631	7936	9645
45°	196114	92821	4433	8452	10449
50°	192240	83193	4421	8976	11494
55°	190005	51044	4414	9698	12701
60°	150729	12159	4650	10333	13778
65°	9577	2160	4564	10555	14874
70°	2065	2367	4431	10977	15711
75°	1930	2329	3926	10580	16037
80°	1785	2380	4066	10513	15174
85°	1186	2371	4742	9287	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 206974 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	1.2
10°-20°	40.3	6.2
20°-30°	93.6	14.5
30°-40°	145.4	22.5
40°-50°	165.7	25.6
50°-60°	139.6	21.6
60°-70°	40.5	6.3
70°-80°	10.4	1.6
80°-90°	3.5	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°	141.9	21.9
0°-40°	287.3	44.4
0°-60°	592.6	91.6
0°-90°	647.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	647.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	126	98	63	48	45	16
15°	412	233	51	42	44	119
25°	702	368	38	39	43	326
35°	836	446	24	36	42	520
45°	805	381	18	35	43	605
55°	633	170	15	32	42	532
65°	24	5	11	26	36	116
75°	3	4	6	16	24	3
85°	1	1	2	5	8	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°	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1	64.1
2.5°	86.5	85.9	85.9	85.3	84.7	84.1	82.3	81.8	78.2	71.2	64.1
5°	125.9	125.3	123.5	122.9	120.0	115.9	111.7	107.6	98.2	78.2	62.9
7.5°	182.3	183.5	182.3	175.9	171.7	165.3	152.9	144.1	125.3	85.3	60.6
10°	257.0	257.0	255.2	245.3	236.4	224.1	208.2	192.9	158.2	91.7	58.2
12.5°	338.2	339.9	331.1	322.9	307.0	291.7	270.0	247.0	195.8	97.0	55.3
15°	412.3	411.1	402.3	391.7	375.2	354.1	331.1	301.7	232.9	100.6	51.2
17.5°	478.2	475.8	468.2	456.4	436.4	412.9	383.5	351.7	271.1	103.5	48.2
20°	538.1	529.9	521.1	508.7	489.3	464.6	434.0	398.2	307.0	103.5	44.7
22.5°	614.0	605.8	593.4	574.6	548.7	518.1	482.3	441.7	338.8	101.2	41.2
25°	702.2	695.8	674.6	650.5	617.0	580.5	538.7	484.0	367.6	97.6	37.6
27.5°	779.3	772.2	751.0	715.8	675.2	631.7	587.5	531.7	392.9	91.2	33.5
30°	835.1	826.3	809.9	776.3	726.9	674.0	621.7	568.1	418.2	83.5	30.0
32.5°	849.9	848.7	836.3	811.6	767.5	709.3	646.9	588.7	438.2	73.5	27.1
35°	836.3	838.1	835.7	823.4	791.0	734.0	663.4	599.9	445.8	63.5	24.1
37.5°	811.6	814.0	818.1	819.9	799.3	748.7	672.8	604.6	444.0	53.5	22.3
40°	794.6	793.4	793.4	805.2	801.0	755.2	674.0	601.1	433.5	42.9	20.6
42.5°	796.3	783.4	774.6	793.4	799.3	752.2	666.4	591.7	410.5	32.9	18.8
45°	805.2	777.5	762.2	786.3	795.7	742.2	652.2	577.5	381.1	22.9	18.2
47.5°	772.2	754.0	751.6	785.7	789.3	725.2	630.5	555.2	352.9	15.9	17.1
50°	717.5	714.6	726.9	762.2	762.8	696.9	605.8	514.6	310.5	11.2	16.5
52.5°	700.5	702.2	713.4	731.6	714.6	649.3	561.1	480.5	257.0	8.8	15.9
55°	632.8	635.8	646.4	657.5	645.2	591.1	507.0	439.3	170.0	8.2	14.7
57.5°	476.4	484.0	503.4	513.4	514.6	481.7	459.3	378.8	95.9	8.2	14.1
60°	437.6	427.6	418.7	398.2	379.3	375.2	377.6	284.1	35.3	7.6	13.5
62.5°	228.8	224.1	237.6	246.4	248.8	261.7	244.7	150.0	7.6	7.6	12.4
65°	23.5	23.5	28.8	38.2	63.5	84.7	80.6	43.5	5.3	7.1	11.2
67.5°	7.1	7.1	7.1	8.2	10.6	10.6	8.8	6.5	5.3	6.5	10.0
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.7	4.1	4.7	5.9	8.8
72.5°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.1	4.1	5.3	7.6
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	4.1	5.9
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.9	2.9	2.9	3.5	4.7
80°	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	2.9	4.1
82.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4	2.9
85°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.8	2.4
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.8
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°	64.1	64.1	64.1	64.1
2.5°	58.2	54.1	51.8	50.6
5°	52.9	47.6	45.9	45.3
7.5°	48.2	44.7	44.1	44.1
10°	45.3	42.9	43.5	43.5
12.5°	43.5	42.9	43.5	44.1
15°	41.8	42.3	43.5	43.5
17.5°	40.6	41.8	42.9	43.5
20°	38.8	41.2	42.9	42.9
22.5°	37.6	40.6	42.3	42.9
25°	36.5	39.4	41.8	42.9
27.5°	34.7	38.8	41.8	42.3
30°	32.9	37.6	41.2	42.9
32.5°	31.2	37.1	41.2	42.3
35°	30.0	36.5	41.2	42.3
37.5°	28.8	35.9	41.2	42.9
40°	28.2	35.3	40.6	42.9
42.5°	27.1	35.3	40.6	42.9
45°	26.5	34.7	40.6	42.9
47.5°	25.9	34.1	40.6	42.9
50°	24.7	33.5	40.0	42.9
52.5°	24.1	32.9	40.0	42.9
55°	22.9	32.3	39.4	42.3
57.5°	22.3	31.2	38.8	41.2
60°	21.2	30.0	37.6	40.0
62.5°	19.4	28.2	35.9	38.8
65°	17.6	25.9	34.1	36.5
67.5°	15.9	24.1	31.8	34.1
70°	14.1	21.8	28.8	31.2
72.5°	12.4	18.8	25.9	27.6
75°	10.6	15.9	21.8	24.1
77.5°	8.2	12.9	18.2	20.0
80°	6.5	10.6	14.1	15.3
82.5°	5.3	7.6	10.6	11.2
85°	3.5	4.7	6.5	7.6
87.5°	1.8	2.4	2.9	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)