

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: P1327116

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327116
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

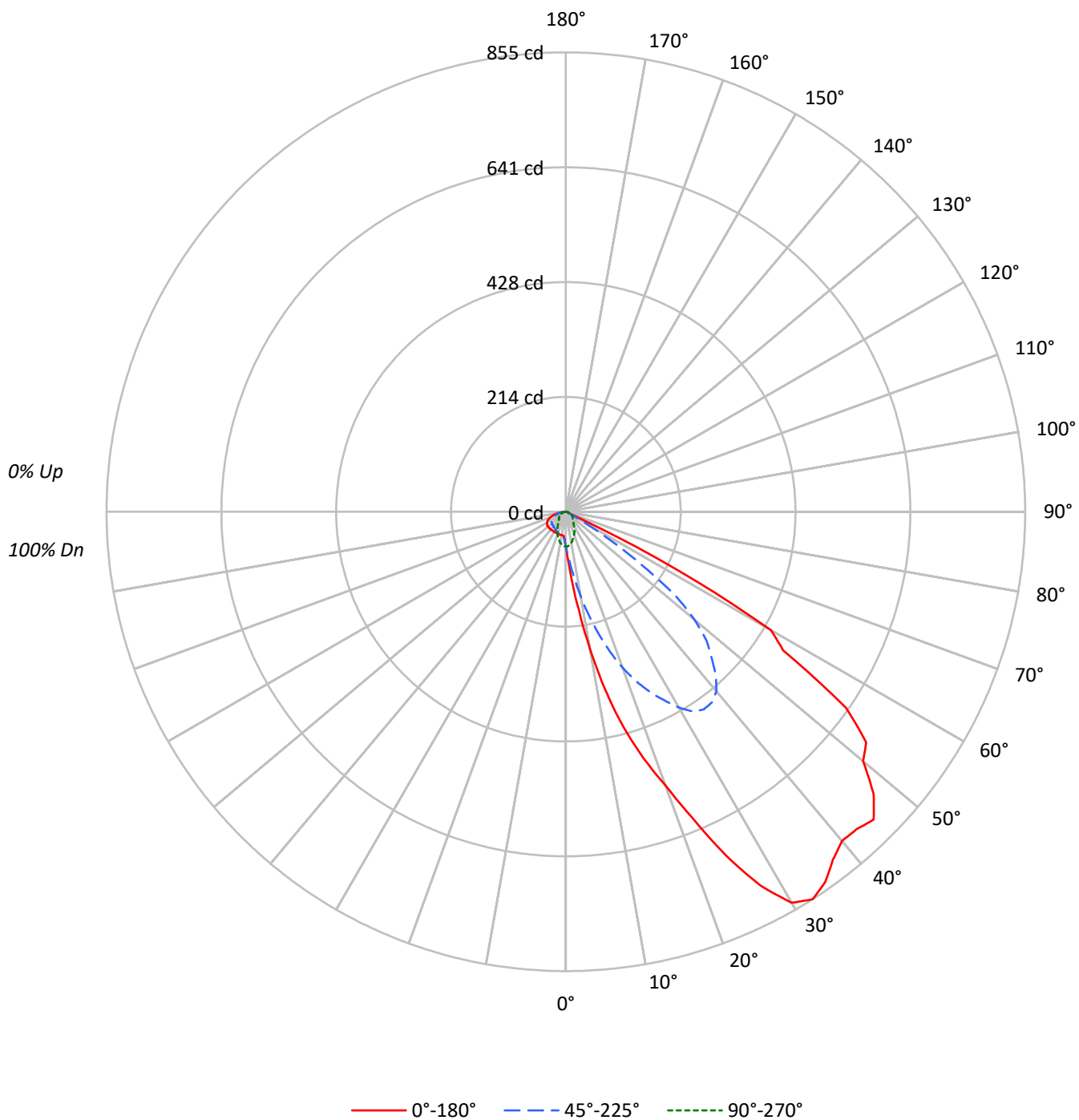
Lumens per Lamp: N/A
Luminaire Lumens: 651.0 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	11108	11108	11108	11108	11108
5°	21887	17081	10943	8281	7883
10°	45224	27841	10248	7555	7660
15°	73958	41775	9182	7595	7809
20°	99244	56614	8247	7588	7918
25°	134273	70291	7202	7525	8209
30°	167107	83663	6006	7537	8591
35°	176921	94316	5109	7716	8956
40°	179744	98044	4654	7981	9712
45°	197308	93405	4457	8500	10522
50°	193446	83728	4448	9029	11575
55°	191176	51345	4444	9758	12791
60°	151659	12228	4684	10402	13847
65°	9658	2160	4564	10595	14956
70°	2065	2367	4482	11028	15811
75°	1996	2396	3926	10647	16170
80°	1785	2380	4066	10612	15274
85°	1186	2371	4742	9287	15215

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 208276 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.1	1.2
10°-20°	40.6	6.2
20°-30°	94.1	14.5
30°-40°	146.3	22.5
40°-50°	166.7	25.6
50°-60°	140.4	21.6
60°-70°	40.7	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°	142.8	21.9
0°-40°	289.1	44.4
0°-60°	596.3	91.6
0°-90°	651.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	651.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	127	99	63	48	46	16
15°	415	234	52	43	44	120
25°	707	370	38	40	43	328
35°	842	449	24	37	43	523
45°	810	384	18	35	43	609
55°	637	171	15	32	43	536
65°	24	5	11	26	37	117
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°	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5	64.5
2.5°	87.0	86.4	86.4	85.8	85.2	84.6	82.8	82.3	78.7	71.6	64.5
5°	126.6	126.0	124.3	123.7	120.7	116.6	112.4	108.3	98.8	78.7	63.3
7.5°	183.4	184.6	183.4	176.9	172.8	166.3	153.9	145.0	126.0	85.8	61.0
10°	258.6	258.6	256.8	246.8	237.9	225.5	209.5	194.1	159.2	92.3	58.6
12.5°	340.3	342.0	333.2	324.9	308.9	293.5	271.6	248.5	197.1	97.6	55.6
15°	414.8	413.6	404.8	394.1	377.5	356.2	333.2	303.6	234.3	101.2	51.5
17.5°	481.1	478.7	471.0	459.2	439.1	415.4	385.8	353.9	272.8	104.2	48.5
20°	541.5	533.2	524.3	511.9	492.4	467.5	436.7	400.6	308.9	104.2	45.0
22.5°	617.8	609.5	597.1	578.2	552.1	521.3	485.2	444.4	340.9	101.8	41.4
25°	706.6	700.1	678.8	654.5	620.8	584.1	542.1	487.0	369.9	98.2	37.9
27.5°	784.1	777.0	755.7	720.2	679.3	635.6	591.2	535.0	395.3	91.7	33.7
30°	840.3	831.4	814.9	781.1	731.4	678.2	625.5	571.6	420.7	84.0	30.2
32.5°	855.1	853.9	841.5	816.6	772.3	713.7	650.9	592.4	440.9	74.0	27.2
35°	841.5	843.3	840.9	828.5	795.9	738.5	667.5	603.6	448.6	63.9	24.3
37.5°	816.6	819.0	823.1	824.9	804.2	753.3	677.0	608.3	446.8	53.9	22.5
40°	799.5	798.3	798.3	810.1	806.0	759.8	678.2	604.8	436.1	43.2	20.7
42.5°	801.3	788.2	779.4	798.3	804.2	756.9	670.5	595.3	413.1	33.1	18.9
45°	810.1	782.3	766.9	791.2	800.7	746.8	656.3	581.1	383.5	23.1	18.3
47.5°	777.0	758.6	756.3	790.6	794.2	729.6	634.4	558.6	355.1	16.0	17.2
50°	722.0	719.0	731.4	766.9	767.5	701.2	609.5	517.8	312.5	11.2	16.6
52.5°	704.8	706.6	717.8	736.2	719.0	653.3	564.5	483.5	258.6	8.9	16.0
55°	636.7	639.7	650.4	661.6	649.2	594.7	510.1	442.1	171.0	8.3	14.8
57.5°	479.3	487.0	506.6	516.6	517.8	484.7	462.2	381.1	96.5	8.3	14.2
60°	440.3	430.2	421.3	400.6	381.7	377.5	379.9	285.8	35.5	7.7	13.6
62.5°	230.2	225.5	239.1	248.0	250.3	263.3	246.2	150.9	7.7	7.7	12.4
65°	23.7	23.7	29.0	38.5	63.9	85.2	81.1	43.8	5.3	7.1	11.2
67.5°	7.1	7.1	7.1	8.3	10.7	10.7	8.9	6.5	5.3	6.5	10.1
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.7	4.1	4.7	5.9	8.9
72.5°	3.6	3.6	3.6	3.6	4.1	4.1	4.1	4.1	4.1	5.3	7.7
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.6	3.6	4.1	5.9
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	3.0	3.0	3.0	3.6	4.7
80°	1.8	1.8	1.8	1.8	1.8	2.4	2.4	2.4	2.4	3.0	4.1
82.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	2.4	3.0
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°	64.5	64.5	64.5	64.5
2.5°	58.6	54.4	52.1	50.9
5°	53.3	47.9	46.2	45.6
7.5°	48.5	45.0	44.4	44.4
10°	45.6	43.2	43.8	43.8
12.5°	43.8	43.2	43.8	44.4
15°	42.0	42.6	43.8	43.8
17.5°	40.8	42.0	43.2	43.8
20°	39.1	41.4	43.2	43.2
22.5°	37.9	40.8	42.6	43.2
25°	36.7	39.6	42.0	43.2
27.5°	34.9	39.1	42.0	42.6
30°	33.1	37.9	41.4	43.2
32.5°	31.4	37.3	41.4	42.6
35°	30.2	36.7	41.4	42.6
37.5°	29.0	36.1	41.4	43.2
40°	28.4	35.5	40.8	43.2
42.5°	27.2	35.5	40.8	43.2
45°	26.6	34.9	40.8	43.2
47.5°	26.0	34.3	40.8	43.2
50°	24.9	33.7	40.2	43.2
52.5°	24.3	33.1	40.2	43.2
55°	23.1	32.5	39.6	42.6
57.5°	22.5	31.4	39.1	41.4
60°	21.3	30.2	37.9	40.2
62.5°	19.5	28.4	36.1	39.1
65°	17.8	26.0	34.3	36.7
67.5°	16.0	24.3	32.0	34.3
70°	14.2	21.9	29.0	31.4
72.5°	12.4	18.9	26.0	27.8
75°	10.7	16.0	21.9	24.3
77.5°	8.3	13.0	18.3	20.1
80°	6.5	10.7	14.2	15.4
82.5°	5.3	7.7	10.7	11.2
85°	3.6	4.7	6.5	7.7
87.5°	1.8	2.4	3.0	3.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)