

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: P1327065

Luminaire Tested: LDSQA3D09R60W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327065
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: LDSQA3D09R60W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

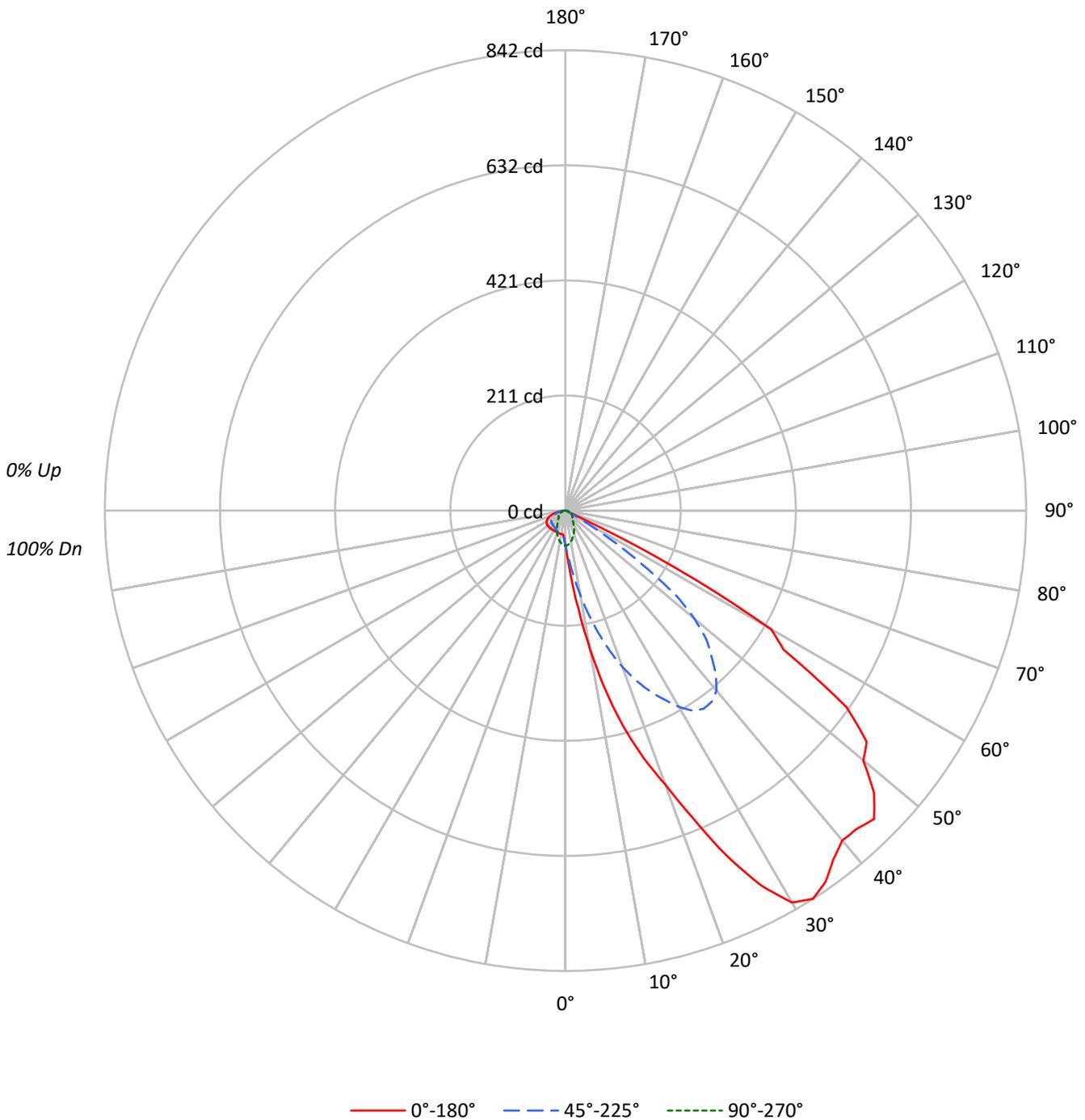
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 641.0 lumens
Efficiency: N/A
Efficacy: 71.2 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			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	108	104	100	97	100	97	94	96	93	91	92	90	89	89	89	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	64	64	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	55	55	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	41	41	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	35	35	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	31	31	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	27	27	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	24	24	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10936	10936	10936	10936	10936
5°	21558	16821	10770	8160	7762
10°	44524	27404	10091	7432	7537
15°	72835	41133	9040	7489	7685
20°	97704	55752	8119	7478	7789
25°	132202	69208	7088	7411	8076
30°	164541	82390	5906	7418	8452
35°	174209	92865	5025	7590	8830
40°	176979	96538	4586	7869	9555
45°	194287	91968	4408	8378	10351
50°	190472	82442	4367	8895	11387
55°	188264	50564	4384	9608	12611
60°	149317	12056	4616	10230	13640
65°	9495	2119	4523	10432	14711
70°	2065	2367	4381	10877	15560
75°	1930	2329	3859	10447	15903
80°	1686	2281	4066	10414	14976
85°	1186	2371	4545	9287	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 205079 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	40.0	6.2
20°-30°	92.7	14.5
30°-40°	144.1	22.5
40°-50°	164.2	25.6
50°-60°	138.3	21.6
60°-70°	40.1	6.3
70°-80°	10.3	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°	140.6	21.9
0°-40°	284.7	44.4
0°-60°	587.1	91.6
0°-90°	641.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	641.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	64	64	64	64	64	
5°	125	97	62	47	45	16
15°	408	231	51	42	43	118
25°	696	364	37	39	42	323
35°	829	442	24	36	42	515
45°	798	378	18	34	42	600
55°	627	168	15	32	42	528
65°	23	5	11	26	36	115
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°	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5	63.5
2.5°	85.7	85.1	85.1	84.5	83.9	83.3	81.6	81.0	77.5	70.5	63.5
5°	124.7	124.1	122.4	121.8	118.9	114.8	110.7	106.6	97.3	77.5	62.3
7.5°	180.6	181.8	180.6	174.2	170.1	163.7	151.5	142.8	124.1	84.5	60.0
10°	254.6	254.6	252.9	243.0	234.2	222.0	206.3	191.1	156.7	90.9	57.7
12.5°	335.0	336.8	328.0	319.9	304.2	289.0	267.4	244.7	194.0	96.1	54.8
15°	408.5	407.3	398.6	388.1	371.7	350.8	328.0	298.9	230.7	99.6	50.7
17.5°	473.7	471.4	463.8	452.2	432.3	409.0	379.9	348.4	268.6	102.6	47.8
20°	533.1	525.0	516.3	504.0	484.8	460.3	430.0	394.5	304.2	102.6	44.3
22.5°	608.3	600.2	587.9	569.3	543.6	513.3	477.8	437.6	335.6	100.2	40.8
25°	695.7	689.3	668.3	644.4	611.2	575.1	533.7	479.5	364.2	96.7	37.3
27.5°	772.0	765.1	744.1	709.1	668.9	625.8	582.1	526.7	389.2	90.3	33.2
30°	827.4	818.7	802.3	769.1	720.2	667.7	615.9	562.9	414.3	82.7	29.7
32.5°	842.0	840.8	828.6	804.1	760.4	702.7	640.9	583.3	434.1	72.8	26.8
35°	828.6	830.3	828.0	815.7	783.7	727.2	657.3	594.3	441.7	62.9	23.9
37.5°	804.1	806.4	810.5	812.3	791.9	741.7	666.6	599.0	439.9	53.0	22.1
40°	787.2	786.0	786.0	797.7	793.6	748.2	667.7	595.5	429.4	42.5	20.4
42.5°	788.9	776.1	767.4	786.0	791.9	745.2	660.2	586.2	406.7	32.6	18.6
45°	797.7	770.3	755.2	779.0	788.4	735.3	646.2	572.2	377.6	22.7	18.1
47.5°	765.1	747.0	744.7	778.5	782.0	718.4	624.6	550.0	349.6	15.7	16.9
50°	710.9	708.0	720.2	755.2	755.7	690.5	600.2	509.8	307.7	11.1	16.3
52.5°	694.0	695.7	706.8	724.9	708.0	643.3	555.9	476.0	254.6	8.7	15.7
55°	627.0	629.9	640.4	651.4	639.2	585.6	502.3	435.3	168.4	8.2	14.6
57.5°	472.0	479.5	498.8	508.7	509.8	477.2	455.1	375.2	95.0	8.2	14.0
60°	433.5	423.6	414.9	394.5	375.8	371.7	374.1	281.4	35.0	7.6	13.4
62.5°	226.7	222.0	235.4	244.1	246.5	259.3	242.4	148.6	7.6	7.6	12.2
65°	23.3	23.3	28.6	37.9	62.9	83.9	79.8	43.1	5.2	7.0	11.1
67.5°	7.0	7.0	7.0	8.2	10.5	10.5	8.7	6.4	5.2	6.4	9.9
70°	4.1	4.1	4.1	4.1	4.1	4.1	4.7	4.1	4.7	5.8	8.7
72.5°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.1	4.1	5.2	7.6
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.5	3.5	4.1	5.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9	3.5	4.7
80°	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.9	4.1
82.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	2.3	2.9
85°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.7
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°	63.5	63.5	63.5	63.5
2.5°	57.7	53.6	51.3	50.1
5°	52.4	47.2	45.4	44.9
7.5°	47.8	44.3	43.7	43.7
10°	44.9	42.5	43.1	43.1
12.5°	43.1	42.5	43.1	43.7
15°	41.4	42.0	43.1	43.1
17.5°	40.2	41.4	42.5	43.1
20°	38.5	40.8	42.5	42.5
22.5°	37.3	40.2	42.0	42.5
25°	36.1	39.0	41.4	42.5
27.5°	34.4	38.5	41.4	42.0
30°	32.6	37.3	40.8	42.5
32.5°	30.9	36.7	40.8	42.0
35°	29.7	36.1	40.8	42.0
37.5°	28.6	35.5	40.8	42.5
40°	28.0	35.0	40.2	42.5
42.5°	26.8	35.0	40.2	42.5
45°	26.2	34.4	40.2	42.5
47.5°	25.6	33.8	40.2	42.5
50°	24.5	33.2	39.6	42.5
52.5°	23.9	32.6	39.6	42.5
55°	22.7	32.0	39.0	42.0
57.5°	22.1	30.9	38.5	40.8
60°	21.0	29.7	37.3	39.6
62.5°	19.2	28.0	35.5	38.5
65°	17.5	25.6	33.8	36.1
67.5°	15.7	23.9	31.5	33.8
70°	14.0	21.6	28.6	30.9
72.5°	12.2	18.6	25.6	27.4
75°	10.5	15.7	21.6	23.9
77.5°	8.2	12.8	18.1	19.8
80°	6.4	10.5	14.0	15.1
82.5°	5.2	7.6	10.5	11.1
85°	3.5	4.7	6.4	7.6
87.5°	1.7	2.3	2.9	3.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)