

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: P1326760

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCA30R 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326760
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R45W2N902750DE010 3LSQCA30R 1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

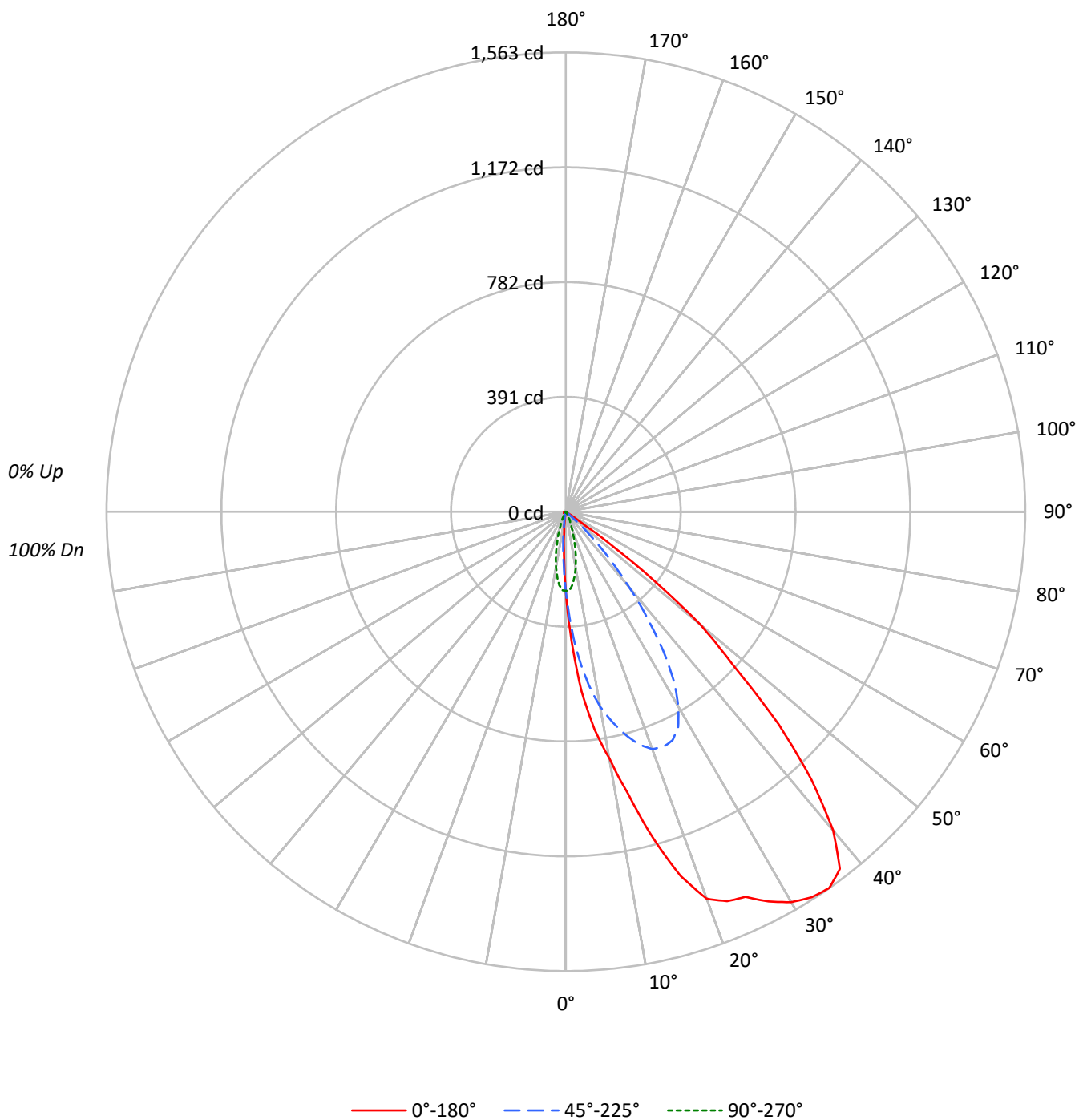
Lumens per Lamp: N/A
Luminaire Lumens: 708.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	46397	46397	46397	46397	46397
5°	105734	85783	43410	17409	11877
10°	148997	117834	33542	3830	1766
15°	205328	140196	21431	1266	1052
20°	256751	157452	11180	861	861
25°	274760	163043	5169	684	779
30°	304980	152251	2347	716	815
35°	328529	121374	757	757	988
40°	317874	75203	405	922	1192
45°	249624	35487	438	1145	1437
50°	160383	4126	643	1420	1902
55°	24351	360	721	1772	2312
60°	413	413	827	2032	2446
65°	489	489	978	2160	2893
70°	604	604	1209	2367	3273
75°	399	799	1597	2728	3527
80°	595	1190	1785	2975	4066
85°	0	1186	2371	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 249624 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	4.2
10°-20°	106.6	15.1
20°-30°	187.3	26.5
30°-40°	212.7	30.0
40°-50°	137.7	19.4
50°-60°	27.0	3.8
60°-70°	3.3	0.5
70°-80°	2.7	0.4
80°-90°	1.3	0.2
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°	323.4	45.7
0°-40°	536.0	75.7
0°-60°	700.8	99.0
0°-90°	708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	708.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	269	269	269	269	269	
5°	612	496	251	101	69	65
15°	1152	786	120	7	6	332
25°	1446	858	27	4	4	678
35°	1563	577	4	4	5	961
45°	1025	146	2	5	6	773
55°	81	1	2	6	8	155
65°	1	1	2	5	7	1
75°	1	1	2	4	5	1
85°	0	1	1	2	2	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4
2.5°	437.6	436.4	438.2	426.3	425.7	416.8	414.5	404.4	390.8	384.3	368.9
5°	611.6	605.7	605.7	591.5	586.8	576.7	559.5	538.2	520.5	496.2	470.1
7.5°	746.1	744.9	744.9	732.4	720.6	706.4	683.3	659.0	630.6	593.3	555.4
10°	852.0	853.8	848.5	837.2	820.1	804.7	777.4	747.8	712.9	673.8	623.5
12.5°	985.9	972.8	968.7	943.2	921.3	891.7	859.1	825.4	782.2	733.0	676.2
15°	1151.6	1135.1	1118.5	1084.7	1048.0	1002.4	951.5	901.8	846.1	786.3	715.3
17.5°	1299.7	1299.7	1277.8	1224.5	1177.1	1109.6	1040.9	974.6	908.9	830.1	741.3
20°	1400.9	1395.6	1379.0	1339.9	1286.1	1209.7	1120.3	1027.3	948.0	859.1	756.1
22.5°	1434.1	1432.9	1433.5	1410.4	1367.2	1287.8	1178.3	1068.8	969.3	866.3	749.0
25°	1445.9	1448.3	1454.2	1445.3	1412.8	1333.4	1213.8	1088.3	975.8	858.0	721.8
27.5°	1495.1	1490.3	1496.8	1490.9	1454.2	1359.5	1220.9	1083.6	961.6	827.8	673.2
30°	1533.6	1532.4	1543.6	1538.3	1490.3	1376.1	1214.4	1065.8	926.6	765.6	596.8
32.5°	1555.5	1556.1	1559.0	1537.1	1466.1	1339.9	1182.4	1029.7	860.9	684.5	497.4
35°	1562.6	1559.0	1542.4	1488.6	1391.4	1256.4	1103.7	943.8	771.5	577.3	393.2
37.5°	1531.8	1513.4	1470.8	1390.3	1277.8	1151.6	1003.0	835.5	648.9	455.9	293.1
40°	1413.9	1389.7	1335.8	1253.5	1148.7	1026.7	874.5	699.3	503.3	334.5	206.1
42.5°	1237.5	1225.1	1168.8	1097.2	1008.4	885.2	728.3	550.7	372.4	230.9	131.4
45°	1024.9	1008.9	973.4	910.1	840.2	711.1	564.9	394.3	254.0	145.7	65.1
47.5°	768.6	769.7	745.5	697.5	628.8	521.1	386.6	264.7	159.3	75.2	14.8
50°	598.6	590.3	556.0	506.8	426.9	347.0	249.9	167.0	84.1	15.4	1.2
52.5°	331.6	336.9	318.6	302.6	261.1	207.2	147.4	84.7	17.8	1.8	1.2
55°	81.1	85.9	82.3	84.1	87.0	77.6	59.8	16.6	1.8	1.2	1.2
57.5°	1.8	1.8	1.8	1.8	3.0	4.1	4.1	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	269.4	269.4	269.4	269.4	269.4	269.4	269.4	269.4
2.5°	361.2	349.9	329.2	267.6	214.9	173.5	148.6	146.3
5°	447.0	416.8	373.0	251.1	158.7	100.7	72.8	68.7
7.5°	515.1	472.5	405.0	223.8	108.4	51.5	28.4	23.7
10°	571.4	511.0	421.6	191.8	68.1	21.9	11.8	10.1
12.5°	609.9	537.0	424.5	156.3	39.1	10.7	7.7	7.1
15°	634.7	545.3	410.3	120.2	21.9	7.1	6.5	5.9
17.5°	644.8	538.2	383.1	87.0	11.8	5.3	5.3	5.3
20°	640.1	515.1	342.8	61.0	7.7	4.7	4.7	4.7
22.5°	617.6	475.5	292.5	40.9	5.3	4.1	4.1	4.1
25°	573.2	421.6	239.2	27.2	3.6	3.6	4.1	4.1
27.5°	506.8	355.3	183.0	18.4	3.0	3.6	4.1	4.1
30°	423.4	281.3	131.4	11.8	3.0	3.6	3.6	4.1
32.5°	336.3	204.9	86.4	7.1	2.4	3.6	4.1	4.7
35°	243.9	139.7	55.1	3.6	3.0	3.6	4.1	4.7
37.5°	171.1	91.2	32.0	2.4	3.0	3.6	4.7	4.7
40°	111.3	50.9	11.8	1.8	3.0	4.1	4.7	5.3
42.5°	58.0	17.8	2.4	1.8	3.0	4.1	5.3	5.9
45°	14.8	2.4	0.6	1.8	3.6	4.7	5.9	5.9
47.5°	1.8	0.6	0.6	2.4	3.6	5.3	5.9	6.5
50°	0.6	1.2	1.2	2.4	3.6	5.3	6.5	7.1
52.5°	1.2	1.2	1.2	2.4	4.1	5.3	7.1	7.7
55°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.7
57.5°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.1
60°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.1
62.5°	1.2	1.2	1.8	2.4	4.1	5.3	7.1	7.1
65°	1.2	1.8	1.8	2.4	4.1	5.3	6.5	7.1
67.5°	1.2	1.2	1.8	2.4	4.1	5.3	6.5	7.1
70°	1.2	1.2	1.8	2.4	3.6	4.7	5.9	6.5
72.5°	1.2	1.2	1.8	2.4	3.6	4.7	5.3	5.9
75°	1.2	1.2	1.8	2.4	3.0	4.1	5.3	5.3
77.5°	1.2	1.2	1.8	1.8	3.0	3.6	4.7	4.7
80°	1.2	1.2	1.8	1.8	2.4	3.0	3.6	4.1
82.5°	1.2	1.2	1.2	1.8	1.8	2.4	3.0	3.0
85°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)