

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: P1319997

Luminaire Tested: LDSQA3D09R459840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319997
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R459840DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

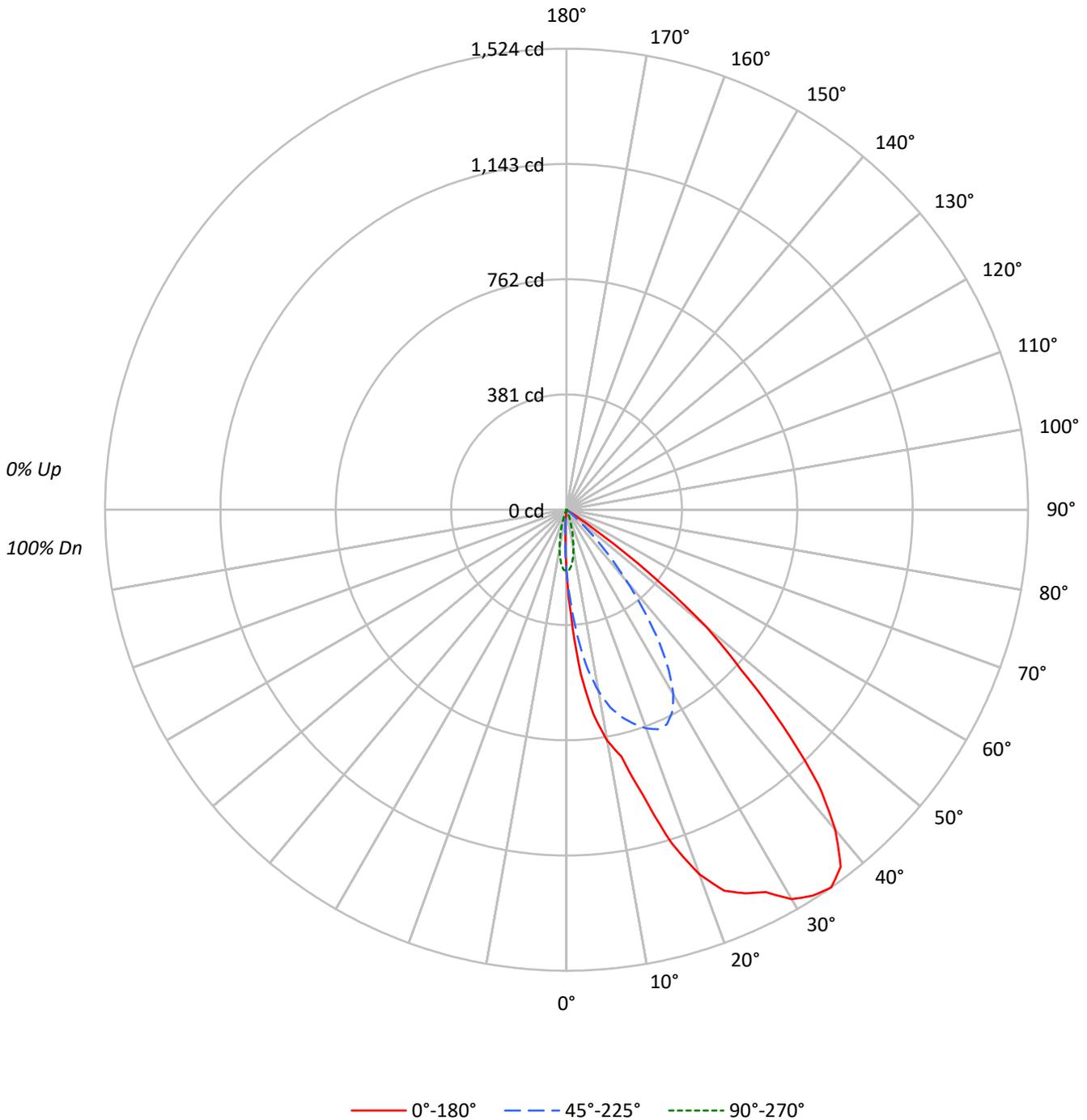
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 646.0 lumens
Efficiency: N/A
Efficacy: 58.7 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	34548	34548	34548	34548	34548
5°	94324	72575	31983	6414	2403
10°	135479	106467	23119	612	507
15°	174411	126645	12303	214	0
20°	235069	140921	4674	0	0
25°	265885	148867	1216	0	0
30°	295554	140339	119	0	0
35°	320392	111913	0	0	0
40°	310522	70256	0	0	0
45°	246166	33465	0	0	0
50°	161107	4207	0	0	0
55°	27684	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	604	0	0
75°	0	399	799	0	0
80°	0	595	1190	595	0
85°	0	1186	2371	1186	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 246166 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.9	3.7
10°-20°	92.0	14.2
20°-30°	172.3	26.7
30°-40°	201.1	31.1
40°-50°	131.1	20.3
50°-60°	24.3	3.8
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.6	0.1
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°	288.2	44.6
0°-40°	489.3	75.7
0°-60°	644.8	99.8
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	201	201	201	201	201	
5°	546	420	185	37	14	58
15°	978	710	69	1	0	291
25°	1399	783	6	0	0	647
35°	1524	532	0	0	0	935
45°	1011	137	0	0	0	769
55°	92	0	0	0	0	160
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6
2.5°	353.7	356.6	350.8	348.5	341.0	342.7	329.9	324.7	316.6	303.3	296.9
5°	545.6	540.4	535.8	525.9	520.1	504.5	487.1	467.4	443.6	419.8	392.6
7.5°	682.5	678.4	676.7	668.6	657.0	640.7	618.1	593.2	562.5	530.6	489.4
10°	774.7	770.6	763.7	755.6	746.3	732.9	710.9	683.7	650.0	608.8	560.7
12.5°	835.0	834.4	822.8	813.5	801.9	790.3	767.7	745.7	712.6	670.3	615.8
15°	978.2	968.9	953.9	927.8	895.3	865.1	828.6	793.8	757.9	710.3	649.4
17.5°	1156.8	1146.4	1120.9	1087.8	1035.6	978.2	915.6	860.5	806.6	742.2	670.3
20°	1282.6	1278.6	1257.1	1218.9	1163.2	1087.2	1004.9	927.2	851.2	768.9	680.2
22.5°	1363.2	1360.9	1352.2	1326.1	1269.3	1184.1	1078.0	973.6	882.0	785.7	677.3
25°	1399.2	1402.1	1403.3	1390.5	1344.7	1257.7	1131.9	1009.0	899.4	783.4	655.2
27.5°	1424.7	1424.7	1429.3	1423.5	1377.2	1285.5	1152.8	1021.1	893.6	755.0	608.8
30°	1486.2	1485.0	1487.9	1472.3	1407.9	1294.2	1143.5	1001.4	860.5	705.7	542.2
32.5°	1512.8	1514.0	1513.4	1488.5	1413.7	1288.4	1120.9	963.7	799.6	628.6	454.0
35°	1523.9	1518.6	1497.2	1440.4	1345.8	1211.3	1057.1	899.9	714.4	532.3	358.4
37.5°	1487.3	1472.3	1424.7	1347.0	1231.6	1102.3	951.5	785.7	601.3	417.5	269.6
40°	1381.2	1361.5	1301.8	1207.8	1102.3	985.8	826.9	651.8	470.3	312.5	189.0
42.5°	1231.0	1208.4	1144.1	1062.3	966.0	843.7	685.4	510.3	344.4	215.7	120.0
45°	1010.7	997.9	960.8	891.8	797.3	670.3	525.4	372.3	238.3	137.4	61.5
47.5°	781.6	765.4	738.7	691.2	612.3	491.7	367.6	252.8	153.1	67.8	12.8
50°	601.3	582.2	549.7	496.9	414.6	328.2	238.3	157.7	77.7	15.7	0.6
52.5°	346.2	350.2	334.6	300.9	255.1	196.6	138.0	79.4	17.4	0.6	0.0
55°	92.2	99.7	97.4	105.0	92.2	77.7	57.4	15.1	1.2	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	3.5	5.2	1.7	0.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	200.6	200.6	200.6	200.6	200.6	200.6	200.6	200.6
2.5°	282.4	270.2	255.1	199.5	150.2	107.9	84.1	77.7
5°	366.5	336.9	298.6	185.0	92.8	37.1	16.8	13.9
7.5°	445.9	402.4	333.4	161.8	47.0	9.3	4.6	4.1
10°	507.4	448.8	358.9	132.2	17.4	3.5	2.9	2.9
12.5°	549.7	478.4	368.2	100.3	6.4	1.7	1.7	1.2
15°	574.1	490.0	359.5	69.0	2.3	1.2	0.0	0.0
17.5°	581.6	485.3	336.3	43.5	0.6	0.0	0.0	0.0
20°	575.2	462.7	299.8	25.5	0.0	0.0	0.0	0.0
22.5°	554.3	427.4	255.7	13.9	0.0	0.0	0.0	0.0
25°	515.5	377.5	204.1	6.4	0.0	0.0	0.0	0.0
27.5°	452.3	313.1	153.7	2.3	0.0	0.0	0.0	0.0
30°	380.4	244.1	109.0	0.6	0.0	0.0	0.0	0.0
32.5°	296.9	179.8	70.2	0.0	0.0	0.0	0.0	0.0
35°	223.2	125.8	41.7	0.0	0.0	0.0	0.0	0.0
37.5°	155.4	79.4	22.0	0.0	0.0	0.0	0.0	0.0
40°	96.8	42.9	7.5	0.0	0.0	0.0	0.0	0.0
42.5°	53.9	15.1	0.6	0.0	0.0	0.0	0.0	0.0
45°	12.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.6	1.2	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	1.2	1.2	0.6	0.0	0.0	0.0
75°	0.6	0.6	1.2	1.2	0.6	0.0	0.0	0.0
77.5°	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0
80°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
82.5°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
85°	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0
87.5°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)