

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: P1312437

Luminaire Tested: LDSQA3D09R509050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312437
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

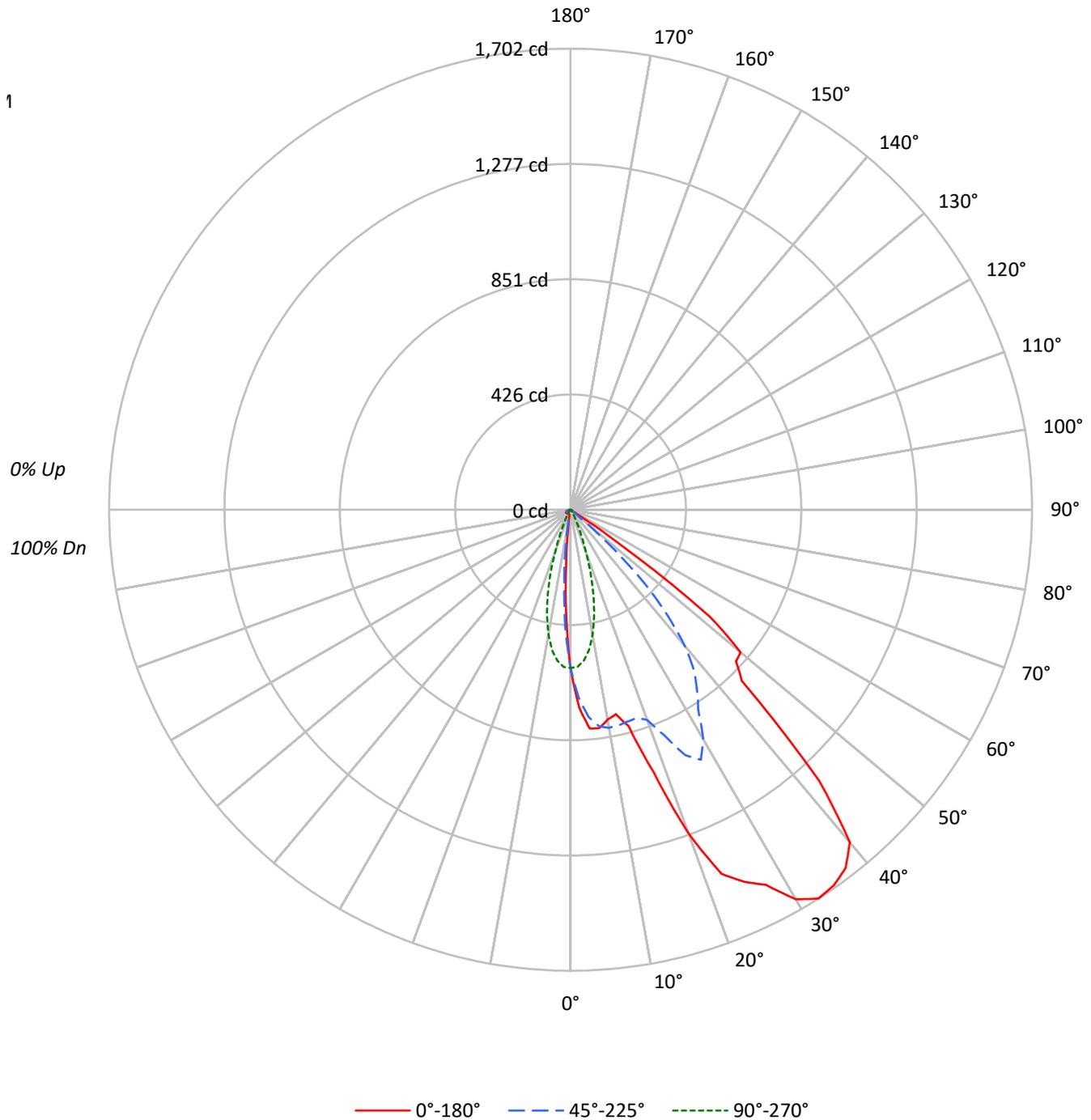
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 908.0 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (A_{in}): 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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	100544	100544	100544	100544	100544
5°	140189	132997	96640	46453	30133
10°	137613	142929	81669	9793	4197
15°	147577	144439	57751	3423	3281
20°	233035	151257	30479	2932	3079
25°	287966	189951	12162	2736	3040
30°	330137	194809	4932	2705	3182
35°	355924	170992	2187	2859	3532
40°	360298	147235	1619	3237	3957
45°	217742	95427	1559	3507	4481
50°	219409	16505	1715	4073	5144
55°	64826	961	1922	4564	5765
60°	1102	1102	1929	4960	6338
65°	978	978	1956	5216	6846
70°	1209	1209	2014	5640	7654
75°	1065	1065	2129	5856	7985
80°	793	1587	2380	5554	8728
85°	1581	3162	3162	6323	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 248723 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.2	5.2
10°-20°	117.2	12.9
20°-30°	219.6	24.2
30°-40°	262.5	28.9
40°-50°	188.1	20.7
50°-60°	58.0	6.4
60°-70°	7.6	0.8
70°-80°	5.5	0.6
80°-90°	2.3	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°	384.0	42.3
0°-40°	646.5	71.2
0°-60°	892.7	98.3
0°-90°	908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	908.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	811	769	559	269	174	75
15°	828	810	324	19	18	265
25°	1515	1000	64	14	16	698
35°	1693	813	10	14	17	1050
45°	894	392	6	14	18	821
55°	216	3	6	15	19	278
65°	2	2	5	13	17	3
75°	2	2	3	9	12	1
85°	1	2	2	3	4	1
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°	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
2.5°	730.1	731.7	734.1	727.7	723.7	720.5	714.9	713.3	699.7	694.1	688.5
5°	810.9	809.3	810.9	808.5	806.9	802.1	797.3	789.3	780.5	769.3	756.5
7.5°	813.3	811.7	814.9	814.9	818.1	818.1	818.1	818.9	814.1	806.1	794.9
10°	786.9	786.9	790.1	788.5	794.1	796.5	802.1	811.7	816.5	817.3	814.1
12.5°	773.3	773.3	774.1	770.9	772.5	774.9	781.3	792.5	803.7	814.9	821.3
15°	827.7	829.3	818.1	802.1	790.1	777.3	773.3	780.5	792.5	810.1	824.5
17.5°	1012.4	1014.8	1002.8	964.4	927.6	874.9	827.7	804.5	791.7	806.1	825.3
20°	1271.5	1262.7	1241.9	1201.1	1147.5	1066.0	992.4	918.0	846.9	825.3	831.7
22.5°	1454.6	1451.4	1434.6	1389.0	1342.7	1266.7	1173.1	1069.2	966.0	900.4	866.1
25°	1515.4	1513.0	1497.8	1470.6	1445.0	1387.4	1303.5	1198.7	1090.8	999.6	913.2
27.5°	1561.0	1557.8	1533.8	1503.4	1477.0	1418.6	1341.9	1262.7	1163.5	1040.4	907.6
30°	1660.1	1651.3	1617.8	1563.4	1513.0	1432.2	1347.5	1249.1	1114.8	979.6	850.1
32.5°	1701.7	1696.9	1668.1	1624.2	1569.0	1463.4	1334.7	1169.9	993.2	876.4	782.1
35°	1692.9	1685.7	1656.1	1605.8	1538.6	1437.0	1265.1	1038.8	894.8	813.3	706.9
37.5°	1666.5	1656.1	1621.0	1561.8	1480.2	1347.5	1122.8	932.4	839.7	747.7	604.6
40°	1602.6	1585.8	1545.0	1483.4	1401.8	1227.5	993.2	868.5	782.1	654.9	490.2
42.5°	1357.9	1349.1	1369.1	1358.7	1286.7	1081.2	901.2	810.1	690.9	529.4	355.1
45°	894.0	909.2	945.2	1006.8	1021.2	930.0	826.1	714.1	568.6	391.8	204.7
47.5°	827.7	824.5	833.3	845.3	847.7	809.3	714.9	590.2	422.2	223.9	56.8
50°	818.9	814.1	806.9	792.5	762.1	687.7	580.6	430.2	243.9	61.6	4.0
52.5°	646.9	642.1	642.1	621.4	582.2	510.2	400.6	236.7	68.0	4.0	3.2
55°	215.9	230.3	227.9	227.1	244.7	225.5	172.7	60.8	5.6	3.2	3.2
57.5°	4.0	4.0	4.0	7.2	11.2	16.0	9.6	4.8	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.2
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
77.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	583.8	583.8	583.8	583.8	583.8	583.8	583.8	583.8
2.5°	675.7	664.5	642.9	581.4	513.4	435.8	383.0	376.6
5°	736.5	719.7	684.5	559.0	403.8	268.7	199.9	174.3
7.5°	776.5	754.1	710.9	522.2	294.3	141.5	76.0	60.8
10°	800.5	779.7	724.5	467.0	187.1	56.0	25.6	24.0
12.5°	813.3	793.3	729.3	400.6	105.6	25.6	20.0	20.0
15°	822.1	800.5	722.1	323.9	52.8	19.2	18.4	18.4
17.5°	826.1	799.7	701.3	243.9	28.0	17.6	17.6	17.6
20°	828.5	790.9	662.9	166.3	19.2	16.0	16.8	16.8
22.5°	830.9	769.3	612.6	105.6	15.2	15.2	16.0	16.0
25°	826.1	731.7	541.4	64.0	13.6	14.4	15.2	16.0
27.5°	791.7	674.9	455.0	39.2	12.0	13.6	15.2	16.0
30°	732.5	591.8	355.1	24.8	11.2	13.6	15.2	16.0
32.5°	655.7	496.6	253.5	15.2	11.2	13.6	15.2	16.0
35°	552.6	379.8	164.7	10.4	11.2	13.6	16.0	16.8
37.5°	436.6	265.5	88.8	8.0	11.2	13.6	16.0	16.8
40°	314.3	159.1	32.0	7.2	10.4	14.4	16.8	17.6
42.5°	183.9	59.2	5.6	6.4	10.4	14.4	16.8	17.6
45°	52.8	6.4	3.2	6.4	10.4	14.4	17.6	18.4
47.5°	4.0	2.4	3.2	6.4	10.4	14.4	17.6	19.2
50°	2.4	2.4	2.4	6.4	10.4	15.2	18.4	19.2
52.5°	3.2	3.2	3.2	6.4	10.4	15.2	18.4	19.2
55°	3.2	3.2	3.2	6.4	10.4	15.2	18.4	19.2
57.5°	3.2	3.2	3.2	6.4	10.4	14.4	18.4	19.2
60°	3.2	3.2	3.2	5.6	9.6	14.4	17.6	18.4
62.5°	3.2	3.2	3.2	5.6	9.6	13.6	17.6	17.6
65°	3.2	3.2	3.2	4.8	8.8	12.8	16.0	16.8
67.5°	3.2	3.2	3.2	4.8	8.0	12.0	15.2	16.0
70°	2.4	3.2	3.2	4.0	7.2	11.2	14.4	15.2
72.5°	2.4	2.4	3.2	4.0	6.4	9.6	12.8	13.6
75°	2.4	2.4	2.4	3.2	5.6	8.8	11.2	12.0
77.5°	2.4	2.4	2.4	3.2	4.8	7.2	10.4	10.4
80°	1.6	2.4	2.4	2.4	4.0	5.6	8.0	8.8
82.5°	1.6	1.6	1.6	2.4	3.2	4.8	6.4	6.4
85°	1.6	1.6	1.6	1.6	2.4	3.2	4.0	4.0
87.5°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)