

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: P1313545

Luminaire Tested: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313545
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: LDSQA3D09R459727DE010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

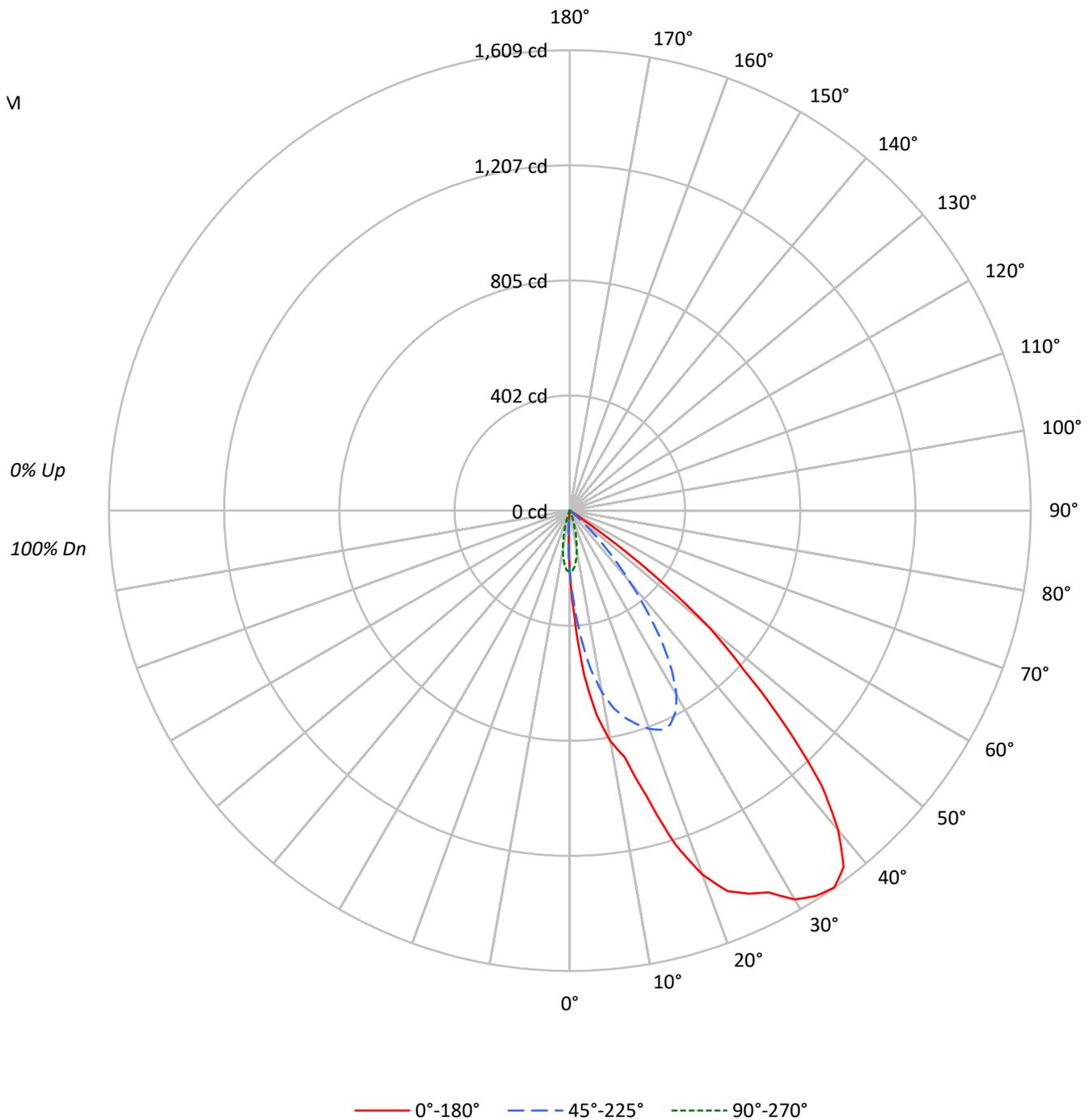
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.0 lumens
Efficiency: N/A
Efficacy: 61.4 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): 11.1
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

TEST NUMBER: P1313545
CATALOG NUMBER: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

Luminous Intensity Polar Plot





TEST NUMBER: P1313545
 CATALOG NUMBER: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

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°	36477	36477	36477	36477	36477
5°	99596	76621	33764	6777	2541
10°	143034	112413	24413	647	542
15°	184128	133706	12980	214	0
20°	248173	148765	4930	0	0
25°	280707	157152	1273	0	0
30°	312020	148155	119	0	0
35°	338242	118158	0	0	0
40°	327834	74191	0	0	0
45°	259878	35340	0	0	0
50°	170083	4421	0	0	0
55°	29215	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: 259878 cd/sqm



TEST NUMBER: P1313545

CATALOG NUMBER: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.2	3.7
10°-20°	97.2	14.2
20°-30°	181.9	26.7
30°-40°	212.3	31.1
40°-50°	138.4	20.3
50°-60°	25.7	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°	304.2	44.6
0°-40°	516.5	75.7
0°-60°	680.7	99.8
0°-90°	682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	212	212	212	212	212	
5°	576	443	195	39	15	62
15°	1033	750	73	1	0	308
25°	1477	827	7	0	0	683
35°	1609	562	0	0	0	987
45°	1067	145	0	0	0	811
55°	97	0	0	0	0	169
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	



TEST NUMBER: P1313545
 CATALOG NUMBER: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8
2.5°	373.4	376.5	370.4	367.9	360.0	361.8	348.3	342.8	334.2	320.2	313.4
5°	576.1	570.5	565.6	555.2	549.1	532.6	514.2	493.4	468.3	443.2	414.4
7.5°	720.5	716.2	714.4	705.8	693.6	676.4	652.6	626.3	593.8	560.1	516.7
10°	817.9	813.6	806.2	797.7	787.9	773.8	750.5	721.7	686.2	642.8	592.0
12.5°	881.5	880.9	868.7	858.9	846.6	834.4	810.5	787.3	752.4	707.7	650.1
15°	1032.7	1022.9	1007.0	979.5	945.2	913.4	874.8	838.1	800.1	749.9	685.6
17.5°	1221.3	1210.3	1183.3	1148.4	1093.3	1032.7	966.6	908.5	851.5	783.6	707.7
20°	1354.1	1349.8	1327.2	1286.8	1228.0	1147.8	1060.9	978.9	898.7	811.7	718.1
22.5°	1439.2	1436.8	1427.6	1400.0	1340.0	1250.1	1138.0	1027.8	931.1	829.5	715.0
25°	1477.2	1480.2	1481.5	1468.0	1419.6	1327.8	1195.0	1065.2	949.5	827.0	691.8
27.5°	1504.1	1504.1	1509.0	1502.9	1453.9	1357.2	1217.0	1078.0	943.4	797.0	642.8
30°	1569.0	1567.8	1570.8	1554.3	1486.4	1366.4	1207.2	1057.2	908.5	745.0	572.4
32.5°	1597.2	1598.4	1597.8	1571.4	1492.5	1360.2	1183.3	1017.4	844.2	663.6	479.3
35°	1608.8	1603.3	1580.6	1520.6	1420.8	1278.8	1116.0	950.1	754.2	562.0	378.3
37.5°	1570.2	1554.3	1504.1	1422.1	1300.3	1163.7	1004.6	829.5	634.8	440.8	284.7
40°	1458.2	1437.4	1374.3	1275.2	1163.7	1040.7	873.0	688.1	496.5	330.0	199.6
42.5°	1299.6	1275.8	1207.8	1121.5	1019.9	890.7	723.6	538.7	363.6	227.7	126.7
45°	1067.0	1053.5	1014.4	941.5	841.7	707.7	554.6	393.0	251.6	145.1	64.9
47.5°	825.2	808.1	779.9	729.7	646.5	519.1	388.1	266.9	161.6	71.6	13.5
50°	634.8	614.6	580.3	524.6	437.7	346.5	251.6	166.5	82.0	16.5	0.6
52.5°	365.5	369.8	353.2	317.7	269.4	207.5	145.7	83.9	18.4	0.6	0.0
55°	97.3	105.3	102.8	110.8	97.3	82.0	60.6	15.9	1.2	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	3.7	5.5	1.8	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



TEST NUMBER: P1313545
 CATALOG NUMBER: LDSQA3D09R459727DE010 3LSQCA30R 1MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	211.8	211.8	211.8	211.8	211.8	211.8	211.8	211.8
2.5°	298.1	285.3	269.4	210.6	158.6	113.9	88.8	82.0
5°	386.9	355.7	315.3	195.3	97.9	39.2	17.8	14.7
7.5°	470.8	424.8	352.0	170.8	49.6	9.8	4.9	4.3
10°	535.6	473.8	378.9	139.6	18.4	3.7	3.1	3.1
12.5°	580.3	505.0	388.7	105.9	6.7	1.8	1.8	1.2
15°	606.0	517.3	379.5	72.8	2.4	1.2	0.0	0.0
17.5°	614.0	512.4	355.1	45.9	0.6	0.0	0.0	0.0
20°	607.3	488.5	316.5	26.9	0.0	0.0	0.0	0.0
22.5°	585.2	451.2	270.0	14.7	0.0	0.0	0.0	0.0
25°	544.2	398.5	215.5	6.7	0.0	0.0	0.0	0.0
27.5°	477.5	330.6	162.2	2.4	0.0	0.0	0.0	0.0
30°	401.6	257.7	115.1	0.6	0.0	0.0	0.0	0.0
32.5°	313.4	189.8	74.1	0.0	0.0	0.0	0.0	0.0
35°	235.7	132.8	44.1	0.0	0.0	0.0	0.0	0.0
37.5°	164.1	83.9	23.3	0.0	0.0	0.0	0.0	0.0
40°	102.2	45.3	8.0	0.0	0.0	0.0	0.0	0.0
42.5°	56.9	15.9	0.6	0.0	0.0	0.0	0.0	0.0
45°	13.5	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)