

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: P1311528

Luminaire Tested: LDSQA3D13R509040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311528  
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: LDSQA3D13R509040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

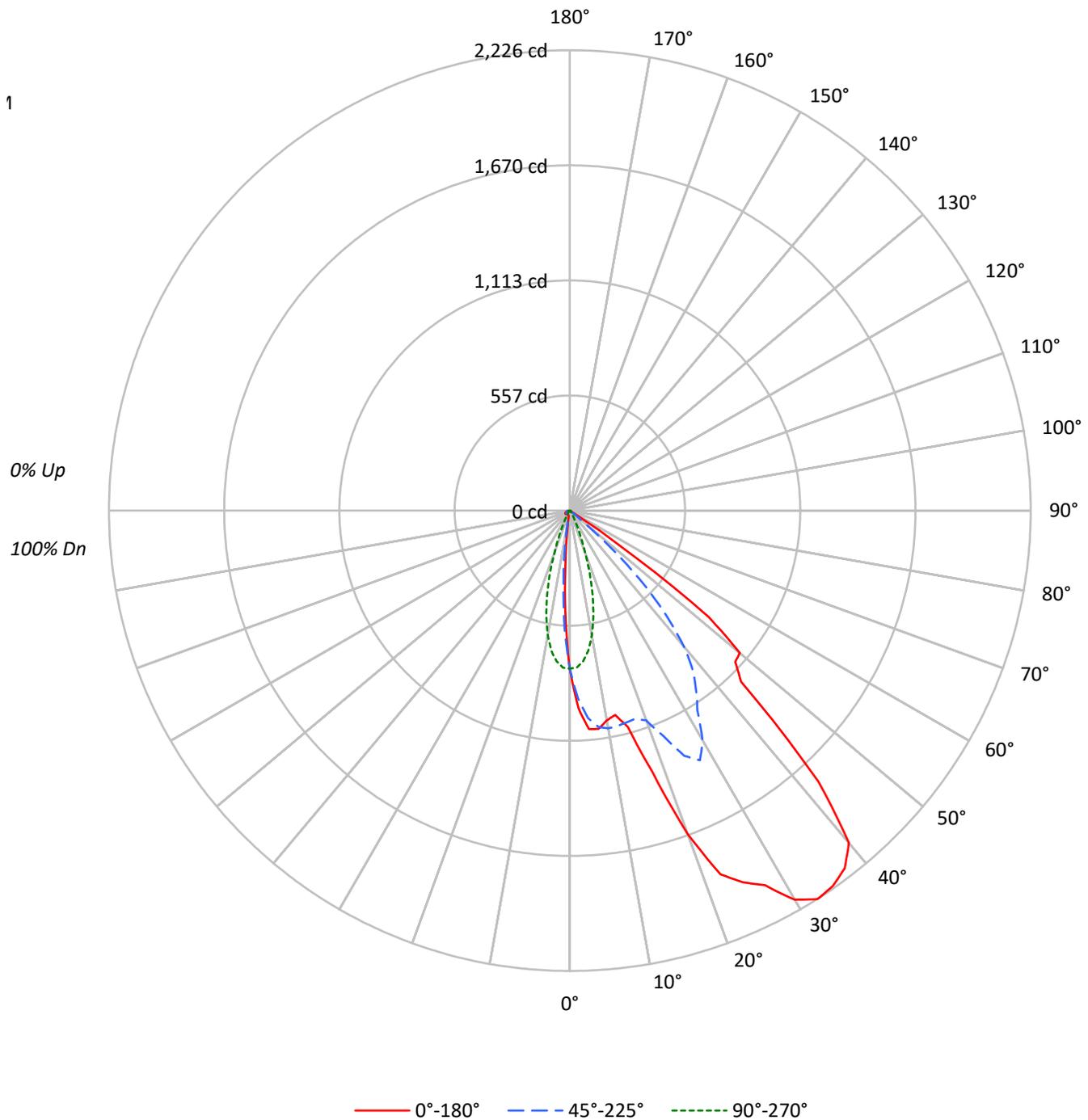
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1188.0 lumens  
Efficiency: N/A  
Efficacy: 81.4 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): 14.6  
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: P1311528  
CATALOG NUMBER: LDSQA3D13R509040DE010 3LSQCA30R 1MW

### 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	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	131544	131544	131544	131544	131544
5°	183409	174004	126428	60767	39434
10°	180038	186999	106851	12801	5491
15°	193079	188978	75545	4475	4297
20°	304897	197901	39881	3830	4032
25°	376766	248517	15905	3573	3972
30°	431956	254886	6443	3540	4156
35°	465693	223722	2859	3742	4625
40°	471382	192649	2113	4227	5171
45°	284892	124873	2046	4579	5870
50°	287061	21595	2251	5332	6725
55°	84824	1261	2522	5975	7537
60°	1447	1447	2514	6476	8301
65°	1263	1263	2567	6805	8965
70°	1561	1561	2618	7352	10021
75°	1397	1397	2795	7652	10447
80°	992	2083	3075	7240	11406
85°	1976	4150	4150	8299	10275

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 325420 cd/sqm



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CATALOG NUMBER: LDSQA3D13R509040DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	5.2
10°-20°	153.4	12.9
20°-30°	287.3	24.2
30°-40°	343.5	28.9
40°-50°	246.2	20.7
50°-60°	75.9	6.4
60°-70°	9.9	0.8
70°-80°	7.2	0.6
80°-90°	2.9	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°	502.4	42.3
0°-40°	845.9	71.2
0°-60°	1167.9	98.3
0°-90°	1188.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1188.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	764	764	764	764	764	
5°	1061	1006	731	352	228	99
15°	1083	1060	424	25	24	347
25°	1983	1308	84	19	21	914
35°	2215	1064	14	18	22	1374
45°	1170	513	8	19	24	1074
55°	282	4	8	20	25	364
65°	3	3	6	17	22	3
75°	2	2	4	12	16	2
85°	1	2	2	4	5	1
90°	0	0	0	0	0	



TEST NUMBER: P1311528

CATALOG NUMBER: LDSQA3D13R509040DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8
2.5°	955.3	957.3	960.5	952.1	946.9	942.7	935.4	933.3	915.5	908.2	900.8
5°	1060.9	1058.8	1060.9	1057.8	1055.7	1049.4	1043.1	1032.7	1021.2	1006.5	989.8
7.5°	1064.1	1062.0	1066.2	1066.2	1070.3	1070.3	1070.3	1071.4	1065.1	1054.6	1040.0
10°	1029.5	1029.5	1033.7	1031.6	1039.0	1042.1	1049.4	1062.0	1068.2	1069.3	1065.1
12.5°	1011.8	1011.8	1012.8	1008.6	1010.7	1013.8	1022.2	1036.9	1051.5	1066.2	1074.5
15°	1082.9	1085.0	1070.3	1049.4	1033.7	1017.0	1011.8	1021.2	1036.9	1059.9	1078.7
17.5°	1324.6	1327.7	1312.0	1261.8	1213.7	1144.6	1082.9	1052.6	1035.8	1054.6	1079.8
20°	1663.6	1652.1	1624.9	1571.5	1501.4	1394.7	1298.4	1201.1	1108.0	1079.8	1088.1
22.5°	1903.2	1899.0	1877.0	1817.4	1756.7	1657.3	1534.9	1398.9	1263.9	1178.1	1133.1
25°	1982.7	1979.6	1959.7	1924.1	1890.6	1815.3	1705.4	1568.4	1427.1	1307.8	1194.8
27.5°	2042.3	2038.1	2006.8	1967.0	1932.5	1856.1	1755.7	1652.1	1522.3	1361.2	1187.5
30°	2172.1	2160.6	2116.6	2045.5	1979.6	1873.9	1763.0	1634.3	1458.5	1281.7	1112.2
32.5°	2226.5	2220.2	2182.5	2125.0	2052.8	1914.7	1746.2	1530.7	1299.5	1146.7	1023.3
35°	2215.0	2205.6	2166.8	2100.9	2013.0	1880.2	1655.2	1359.1	1170.8	1064.1	924.9
37.5°	2180.4	2166.8	2120.8	2043.4	1936.7	1763.0	1469.0	1220.0	1098.6	978.3	791.0
40°	2096.7	2074.8	2021.4	1940.8	1834.1	1606.0	1299.5	1136.3	1023.3	856.9	641.4
42.5°	1776.6	1765.1	1791.2	1777.6	1683.5	1414.6	1179.2	1059.9	904.0	692.6	464.5
45°	1169.7	1189.6	1236.7	1317.3	1336.1	1216.8	1080.8	934.3	743.9	512.7	267.8
47.5°	1082.9	1078.7	1090.2	1105.9	1109.1	1058.8	935.4	772.2	552.4	293.0	74.3
50°	1071.4	1065.1	1055.7	1036.9	997.1	899.8	759.6	562.9	319.1	80.6	5.2
52.5°	846.4	840.2	840.2	813.0	761.7	667.5	524.2	309.7	88.9	5.2	4.2
55°	282.5	301.3	298.2	297.1	320.2	295.1	226.0	79.5	7.3	4.2	4.2
57.5°	5.2	5.2	5.2	9.4	14.6	20.9	12.6	6.3	4.2	4.2	4.2
60°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
62.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.2
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1	3.1
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1
77.5°	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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: P1311528

CATALOG NUMBER: LDSQA3D13R509040DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	763.8	763.8	763.8	763.8	763.8	763.8	763.8	763.8
2.5°	884.1	869.5	841.2	760.6	671.7	570.2	501.2	492.8
5°	963.6	941.7	895.6	731.3	528.4	351.5	261.6	228.1
7.5°	1015.9	986.6	930.1	683.2	385.0	185.2	99.4	79.5
10°	1047.3	1020.1	947.9	611.0	244.8	73.2	33.5	31.4
12.5°	1064.1	1037.9	954.2	524.2	138.1	33.5	26.2	26.2
15°	1075.6	1047.3	944.8	423.7	69.1	25.1	24.1	24.1
17.5°	1080.8	1046.3	917.6	319.1	36.6	23.0	23.0	23.0
20°	1083.9	1034.8	867.4	217.6	25.1	20.9	22.0	22.0
22.5°	1087.1	1006.5	801.4	138.1	19.9	19.9	20.9	20.9
25°	1080.8	957.3	708.3	83.7	17.8	18.8	19.9	20.9
27.5°	1035.8	883.1	595.3	51.3	15.7	17.8	19.9	20.9
30°	958.4	774.2	464.5	32.4	14.6	17.8	19.9	20.9
32.5°	857.9	649.7	331.7	19.9	14.6	17.8	19.9	20.9
35°	723.0	497.0	215.5	13.6	14.6	17.8	20.9	22.0
37.5°	571.3	347.4	116.1	10.5	14.6	17.8	20.9	22.0
40°	411.2	208.2	41.9	9.4	13.6	18.8	22.0	23.0
42.5°	240.6	77.4	7.3	8.4	13.6	18.8	22.0	23.0
45°	69.1	8.4	4.2	8.4	13.6	18.8	23.0	24.1
47.5°	5.2	3.1	4.2	8.4	13.6	18.8	23.0	25.1
50°	3.1	3.1	3.1	8.4	13.6	19.9	24.1	25.1
52.5°	4.2	4.2	4.2	8.4	13.6	19.9	24.1	25.1
55°	4.2	4.2	4.2	8.4	13.6	19.9	24.1	25.1
57.5°	4.2	4.2	4.2	8.4	13.6	18.8	24.1	25.1
60°	4.2	4.2	4.2	7.3	12.6	18.8	23.0	24.1
62.5°	4.2	4.2	4.2	7.3	12.6	17.8	23.0	23.0
65°	4.2	4.2	4.2	6.3	11.5	16.7	20.9	22.0
67.5°	4.2	4.2	4.2	6.3	10.5	15.7	19.9	20.9
70°	3.1	4.2	4.2	5.2	9.4	14.6	18.8	19.9
72.5°	3.1	3.1	4.2	5.2	8.4	12.6	16.7	17.8
75°	3.1	3.1	3.1	4.2	7.3	11.5	14.6	15.7
77.5°	3.1	3.1	3.1	4.2	6.3	9.4	13.6	13.6
80°	2.1	3.1	3.1	3.1	5.2	7.3	10.5	11.5
82.5°	2.1	2.1	2.1	3.1	4.2	6.3	8.4	8.4
85°	2.1	2.1	2.1	2.1	3.1	4.2	5.2	5.2
87.5°	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)