

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: P1307192

Luminaire Tested: LDSQA3D13R459024DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

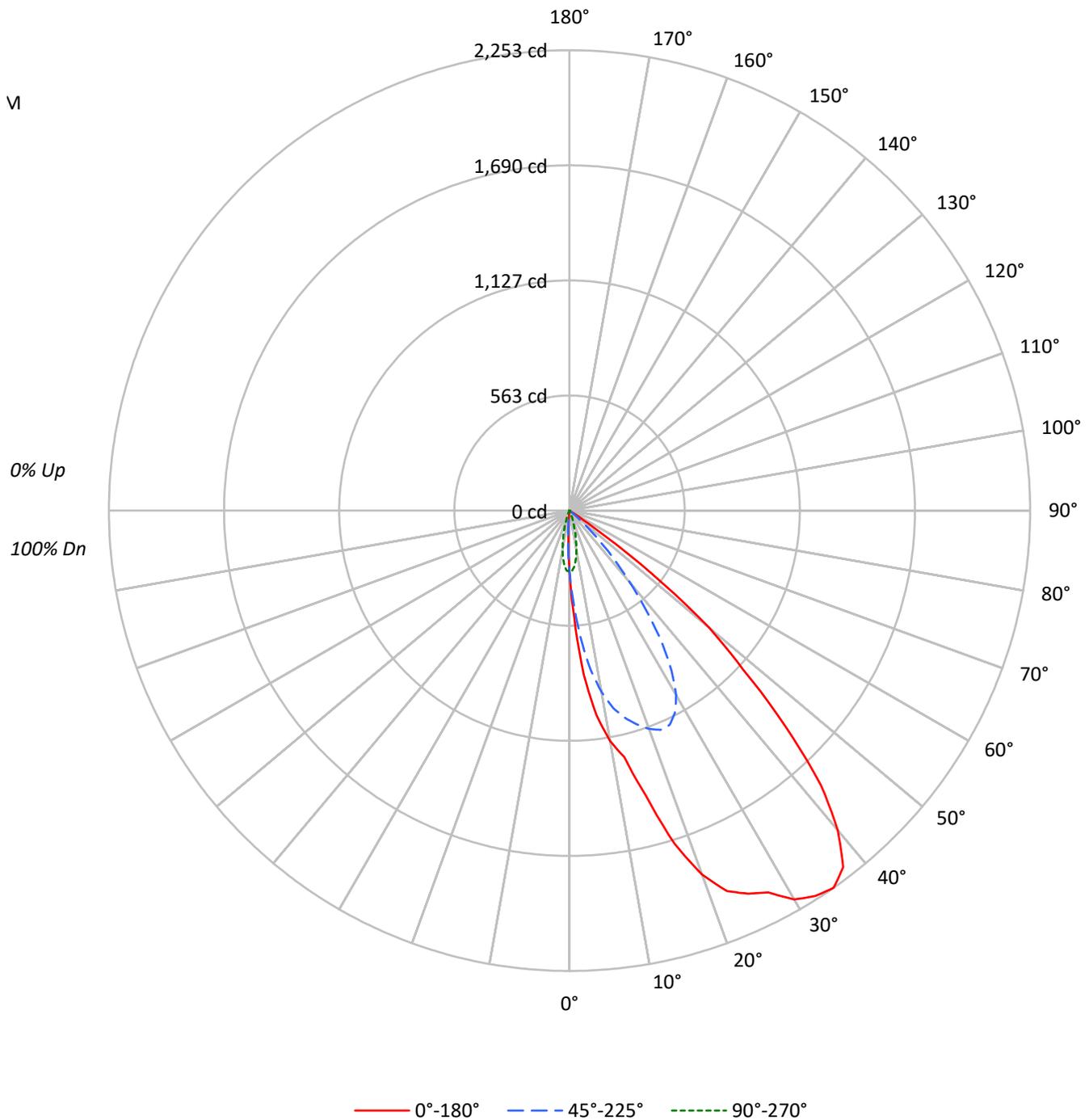
Test Method: LM-79-2019  
Report Number: P1307192  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459024DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 955.0 lumens  
Efficiency: N/A  
Efficacy: 65.4 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): 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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

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

	0°	45°	90°	135°	180°
0°	51081	51081	51081	51081	51081
5°	139445	107290	47283	9491	3561
10°	200272	157409	34171	892	752
15°	257837	187231	18186	303	0
20°	347527	208329	6909	0	0
25°	393070	220070	1786	0	0
30°	436928	207457	179	0	0
35°	473640	165442	0	0	0
40°	459061	103867	0	0	0
45°	363902	49491	0	0	0
50°	238164	6189	0	0	0
55°	40926	0	0	0	0
60°	0	0	310	0	0
65°	0	367	367	0	0
70°	0	453	856	0	0
75°	0	599	1131	0	0
80°	0	893	1686	893	0
85°	0	1778	3359	1778	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 363902 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	3.7
10°-20°	136.1	14.2
20°-30°	254.7	26.7
30°-40°	297.3	31.1
40°-50°	193.9	20.3
50°-60°	36.0	3.8
60°-70°	0.4	0.0
70°-80°	0.7	0.1
80°-90°	0.8	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°	426.0	44.6
0°-40°	723.3	75.7
0°-60°	953.2	99.8
0°-90°	955.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	955.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	297	297	297	297	297	
5°	807	621	274	55	21	86
15°	1446	1050	102	2	0	431
25°	2068	1158	9	0	0	957
35°	2253	787	0	0	0	1382
45°	1494	203	0	0	0	1136
55°	136	0	0	0	0	237
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	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°	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6
2.5°	522.9	527.2	518.6	515.2	504.0	506.6	487.8	480.0	468.0	448.3	438.9
5°	806.6	798.9	792.1	777.5	768.9	745.8	720.1	690.9	655.8	620.6	580.3
7.5°	1008.9	1002.9	1000.4	988.4	971.2	947.2	913.8	876.9	831.5	784.4	723.5
10°	1145.2	1139.2	1129.0	1117.0	1103.2	1083.5	1050.9	1010.7	960.9	900.1	828.9
12.5°	1234.4	1233.5	1216.4	1202.7	1185.5	1168.4	1135.0	1102.4	1053.5	990.9	910.4
15°	1446.1	1432.4	1410.1	1371.5	1323.5	1279.0	1225.0	1173.5	1120.4	1050.1	960.1
17.5°	1710.2	1694.7	1657.0	1608.1	1531.0	1446.1	1353.5	1272.1	1192.4	1097.2	990.9
20°	1896.2	1890.2	1858.4	1801.9	1719.6	1607.3	1485.6	1370.7	1258.4	1136.7	1005.5
22.5°	2015.3	2011.9	1999.0	1960.5	1876.5	1750.4	1593.6	1439.3	1303.8	1161.5	1001.2
25°	2068.5	2072.8	2074.5	2055.6	1987.9	1859.3	1673.3	1491.6	1329.5	1158.1	968.7
27.5°	2106.2	2106.2	2113.0	2104.5	2035.9	1900.5	1704.2	1509.6	1321.0	1116.1	900.1
30°	2197.1	2195.3	2199.6	2176.5	2081.3	1913.3	1690.4	1480.4	1272.1	1043.2	801.5
32.5°	2236.5	2238.2	2237.3	2200.5	2089.9	1904.7	1657.0	1424.7	1182.1	929.2	671.2
35°	2252.8	2245.1	2213.3	2129.3	1989.6	1790.7	1562.7	1330.4	1056.1	786.9	529.8
37.5°	2198.8	2176.5	2106.2	1991.3	1820.7	1629.6	1406.7	1161.5	888.9	617.2	398.6
40°	2041.9	2012.7	1924.5	1785.6	1629.6	1457.3	1222.4	963.5	695.2	462.0	279.5
42.5°	1819.9	1786.4	1691.3	1570.4	1428.1	1247.3	1013.2	754.4	509.2	318.9	177.4
45°	1494.1	1475.3	1420.4	1318.4	1178.7	990.9	776.6	550.3	352.3	203.2	90.9
47.5°	1155.5	1131.5	1092.1	1021.8	905.2	726.9	543.5	373.7	226.3	100.3	18.9
50°	888.9	860.6	812.6	734.6	612.9	485.2	352.3	233.2	114.9	23.1	0.9
52.5°	511.8	517.8	494.6	444.9	377.2	290.6	204.0	117.4	25.7	0.9	0.0
55°	136.3	147.4	144.0	155.2	136.3	114.9	84.9	22.3	1.7	0.0	0.0
57.5°	0.0	0.0	0.9	1.7	5.1	7.7	2.6	0.9	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	0.9	0.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	296.6	296.6	296.6	296.6	296.6	296.6	296.6	296.6
2.5°	417.5	399.5	377.2	294.9	222.0	159.4	124.3	114.9
5°	541.8	498.0	441.5	273.5	137.2	54.9	24.9	20.6
7.5°	659.2	594.9	492.9	239.2	69.4	13.7	6.9	6.0
10°	750.1	663.5	530.6	195.4	25.7	5.1	4.3	4.3
12.5°	812.6	707.2	544.3	148.3	9.4	2.6	2.6	1.7
15°	848.6	724.3	531.5	102.0	3.4	1.7	0.0	0.0
17.5°	859.8	717.5	497.2	64.3	0.9	0.0	0.0	0.0
20°	850.4	684.1	443.2	37.7	0.0	0.0	0.0	0.0
22.5°	819.5	631.8	378.0	20.6	0.0	0.0	0.0	0.0
25°	762.1	558.0	301.7	9.4	0.0	0.0	0.0	0.0
27.5°	668.6	462.9	227.2	3.4	0.0	0.0	0.0	0.0
30°	562.3	360.9	161.2	0.9	0.0	0.0	0.0	0.0
32.5°	438.9	265.7	103.7	0.0	0.0	0.0	0.0	0.0
35°	330.0	186.0	61.7	0.0	0.0	0.0	0.0	0.0
37.5°	229.7	117.4	32.6	0.0	0.0	0.0	0.0	0.0
40°	143.2	63.4	11.1	0.0	0.0	0.0	0.0	0.0
42.5°	79.7	22.3	0.9	0.0	0.0	0.0	0.0	0.0
45°	18.9	1.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	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	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.9	0.9	0.9	0.0	0.0	0.0	0.0
62.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
65°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
70°	0.9	0.9	0.9	1.7	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	1.7	1.7	0.9	0.0	0.0	0.0
75°	0.9	0.9	1.7	1.7	0.9	0.0	0.0	0.0
77.5°	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0
80°	0.9	1.7	1.7	1.7	1.7	0.9	0.0	0.0
82.5°	0.9	1.7	1.7	1.7	1.7	0.9	0.0	0.0
85°	0.9	1.7	1.7	1.7	0.9	0.9	0.0	0.0
87.5°	0.9	1.7	1.7	1.7	1.7	0.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)