

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: P1314684

Luminaire Tested: LDSQA3D13R459730DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

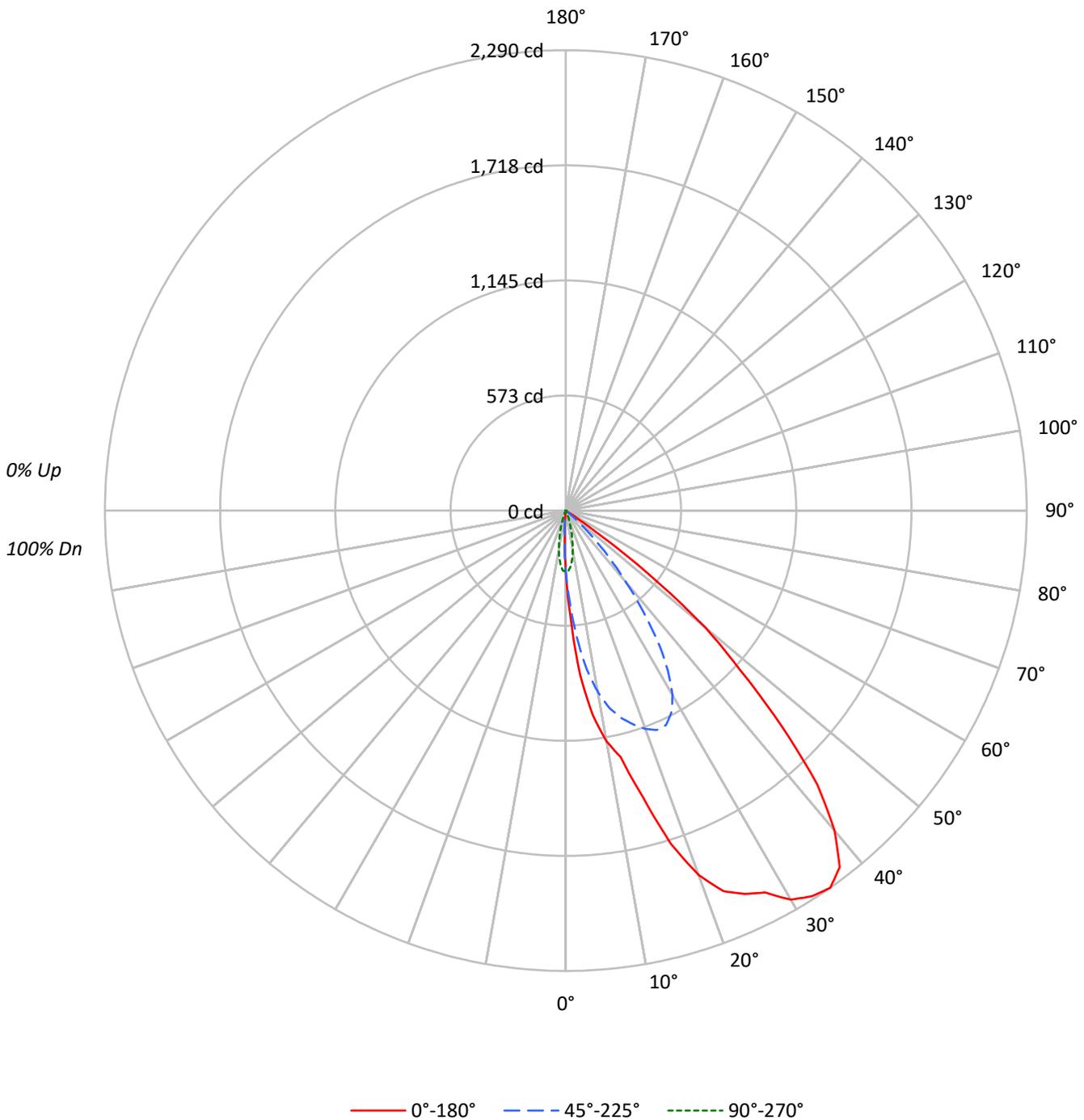
Test Method: LM-79-2019  
Report Number: P1314684  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R459730DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 971.0 lumens  
Efficiency: N/A  
Efficacy: 66.5 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				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°	51942	51942	51942	51942	51942
5°	141797	109088	48061	9647	3613
10°	203630	160050	34749	909	769
15°	262169	190369	18490	303	0
20°	353337	211812	7019	0	0
25°	399645	223756	1824	0	0
30°	444246	210937	179	0	0
35°	481566	168217	0	0	0
40°	466750	105621	0	0	0
45°	370016	50319	0	0	0
50°	242156	6296	0	0	0
55°	41616	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: 370016 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	3.7
10°-20°	138.3	14.2
20°-30°	258.9	26.7
30°-40°	302.3	31.1
40°-50°	197.1	20.3
50°-60°	36.6	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°	433.2	44.6
0°-40°	735.4	75.7
0°-60°	969.1	99.8
0°-90°	971.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	971.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	302	302	302	302	302	
5°	820	631	278	56	21	88
15°	1470	1068	104	2	0	438
25°	2103	1178	10	0	0	973
35°	2290	800	0	0	0	1405
45°	1519	207	0	0	0	1155
55°	139	0	0	0	0	241
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	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6
2.5°	531.7	536.0	527.3	523.8	512.5	515.1	495.9	488.1	475.9	455.8	446.2
5°	820.2	812.3	805.3	790.5	781.8	758.3	732.1	702.5	666.8	631.0	590.1
7.5°	1025.9	1019.7	1017.1	1004.9	987.5	963.1	929.1	891.6	845.4	797.5	735.6
10°	1164.4	1158.3	1147.9	1135.7	1121.7	1101.7	1068.6	1027.6	977.0	915.2	842.8
12.5°	1255.1	1254.2	1236.8	1222.8	1205.4	1188.0	1154.0	1120.9	1071.2	1007.5	925.6
15°	1470.4	1456.4	1433.7	1394.5	1345.7	1300.4	1245.5	1193.2	1139.2	1067.7	976.2
17.5°	1738.8	1723.1	1684.8	1635.1	1556.6	1470.4	1376.2	1293.4	1212.4	1115.6	1007.5
20°	1927.9	1921.8	1889.6	1832.1	1748.4	1634.2	1510.4	1393.7	1279.5	1155.7	1022.4
22.5°	2049.1	2045.6	2032.5	1993.3	1907.9	1779.8	1620.3	1463.4	1325.7	1181.0	1018.0
25°	2103.1	2107.5	2109.2	2090.0	2021.2	1890.5	1701.3	1516.5	1351.8	1177.5	984.9
27.5°	2141.5	2141.5	2148.4	2139.7	2070.0	1932.3	1732.7	1534.9	1343.1	1134.8	915.2
30°	2233.9	2232.1	2236.5	2212.9	2116.2	1945.4	1718.8	1505.2	1293.4	1060.7	814.9
32.5°	2274.0	2275.7	2274.8	2237.3	2124.9	1936.7	1684.8	1448.6	1201.9	944.8	682.4
35°	2290.5	2282.7	2250.4	2165.0	2022.9	1820.7	1588.9	1352.7	1073.8	800.1	538.6
37.5°	2235.6	2212.9	2141.5	2024.7	1851.2	1656.9	1430.3	1181.0	903.8	627.5	405.3
40°	2076.1	2046.5	1956.7	1815.5	1656.9	1481.7	1242.9	979.7	706.9	469.8	284.1
42.5°	1850.4	1816.4	1719.6	1596.7	1452.1	1268.1	1030.2	767.0	517.7	324.2	180.4
45°	1519.2	1500.0	1444.2	1340.5	1198.4	1007.5	789.7	559.6	358.2	206.6	92.4
47.5°	1174.9	1150.5	1110.4	1038.9	920.4	739.1	552.6	380.0	230.1	102.0	19.2
50°	903.8	875.1	826.3	746.9	623.2	493.3	358.2	237.1	116.8	23.5	0.9
52.5°	520.3	526.4	502.9	452.4	383.5	295.5	207.4	119.4	26.1	0.9	0.0
55°	138.6	149.9	146.4	157.8	138.6	116.8	86.3	22.7	1.7	0.0	0.0
57.5°	0.0	0.0	0.9	1.7	5.2	7.8	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°	301.6	301.6	301.6	301.6	301.6	301.6	301.6	301.6
2.5°	424.5	406.2	383.5	299.8	225.7	162.1	126.4	116.8
5°	550.8	506.4	448.9	278.0	139.5	55.8	25.3	20.9
7.5°	670.2	604.9	501.2	243.2	70.6	13.9	7.0	6.1
10°	762.6	674.6	539.5	198.7	26.1	5.2	4.4	4.4
12.5°	826.3	719.1	553.5	150.8	9.6	2.6	2.6	1.7
15°	862.9	736.5	540.4	103.7	3.5	1.7	0.0	0.0
17.5°	874.2	729.5	505.5	65.4	0.9	0.0	0.0	0.0
20°	864.6	695.5	450.6	38.3	0.0	0.0	0.0	0.0
22.5°	833.2	642.4	384.4	20.9	0.0	0.0	0.0	0.0
25°	774.8	567.4	306.8	9.6	0.0	0.0	0.0	0.0
27.5°	679.8	470.7	231.0	3.5	0.0	0.0	0.0	0.0
30°	571.8	366.9	163.9	0.9	0.0	0.0	0.0	0.0
32.5°	446.2	270.2	105.5	0.0	0.0	0.0	0.0	0.0
35°	335.6	189.1	62.8	0.0	0.0	0.0	0.0	0.0
37.5°	233.6	119.4	33.1	0.0	0.0	0.0	0.0	0.0
40°	145.6	64.5	11.3	0.0	0.0	0.0	0.0	0.0
42.5°	81.1	22.7	0.9	0.0	0.0	0.0	0.0	0.0
45°	19.2	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)