

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: P1308479

Luminaire Tested: LDSQA3D20R509027D010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308479  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R509027D010 3LSQCA45R 1MMS  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

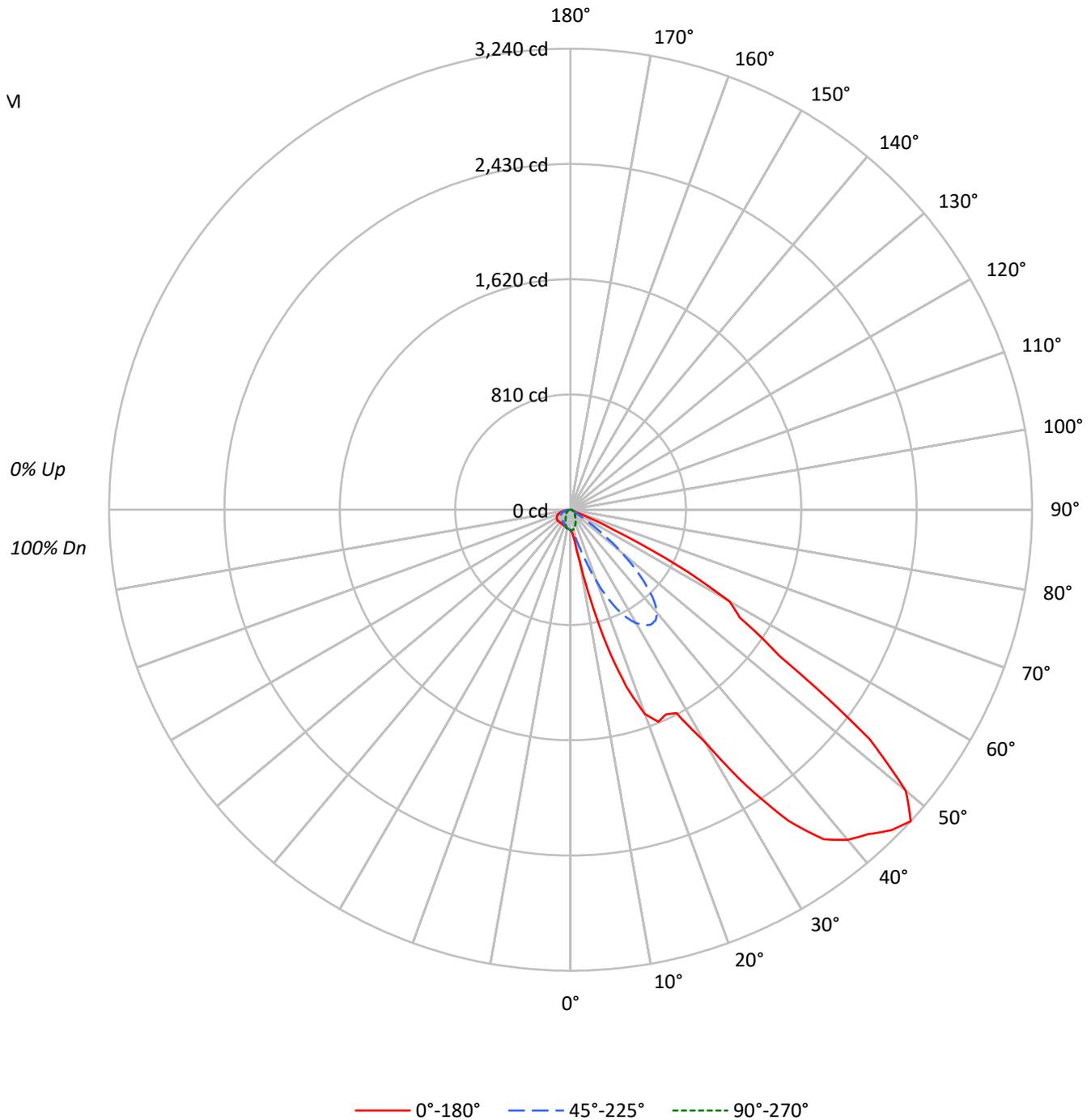
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1827.0 lumens  
Efficiency: N/A  
Efficacy: 63.4 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	22	20

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

	0°	45°	90°	135°	180°
0°	25007	25007	25007	25007	25007
5°	29735	27834	24826	23736	23460
10°	64023	34504	23731	22909	23189
15°	177264	56556	21378	21948	22786
20°	280247	99207	18511	21113	22268
25°	301363	145731	15886	20390	22499
30°	374066	182956	13801	20085	23227
35°	561375	207028	11942	20247	24557
40°	680824	212860	10634	20931	25899
45°	775616	182572	10376	22286	28448
50°	823218	126008	10583	24087	31723
55°	537797	50714	10419	26063	35070
60°	443542	8680	10333	28279	38578
65°	133746	4483	9658	30238	42463
70°	5539	4784	9517	30968	46074
75°	5257	5257	9449	31474	50372
80°	4661	4661	9422	31341	51672
85°	3162	6323	12449	31221	49796

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 825870 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.1	0.8
10°-20°	86.5	4.7
20°-30°	222.4	12.2
30°-40°	399.5	21.9
40°-50°	533.6	29.2
50°-60°	406.4	22.2
60°-70°	123.3	6.8
70°-80°	29.5	1.6
80°-90°	10.7	0.6
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°	324.0	17.7
0°-40°	723.5	39.6
0°-60°	1663.5	91.1
0°-90°	1827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	145	145	145	145	145	
5°	172	161	144	137	136	22
15°	994	317	120	123	128	293
25°	1586	767	84	107	118	757
35°	2670	985	57	96	117	1639
45°	3184	750	43	92	117	2435
55°	1791	169	35	87	117	1782
65°	328	11	24	74	104	454
75°	8	8	14	47	76	8
85°	2	3	6	16	25	2
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2	145.2
2.5°	154.6	154.6	154.6	154.6	154.6	154.6	153.1	153.1	153.1	149.9	146.8
5°	172.0	173.6	172.0	172.0	168.9	168.9	165.7	165.7	161.0	151.5	143.6
7.5°	225.7	224.1	222.5	216.2	211.5	200.4	195.7	187.8	173.6	151.5	140.4
10°	366.1	356.6	350.3	336.1	306.1	287.2	262.0	236.7	197.3	151.5	135.7
12.5°	636.0	634.4	615.4	568.1	525.5	467.1	405.6	344.0	243.0	148.3	129.4
15°	994.2	980.0	953.1	897.9	822.2	730.6	620.2	511.3	317.2	143.6	119.9
17.5°	1300.3	1283.0	1262.4	1207.2	1120.4	1005.2	872.7	722.7	418.2	137.3	110.5
20°	1529.1	1518.1	1500.7	1456.5	1374.5	1270.3	1122.0	940.5	541.3	129.4	101.0
22.5°	1612.8	1611.2	1614.3	1598.6	1557.5	1475.5	1333.5	1144.1	662.8	119.9	91.5
25°	1585.9	1584.4	1604.9	1625.4	1634.9	1601.7	1492.8	1308.2	766.9	112.0	83.6
27.5°	1611.2	1606.5	1597.0	1600.1	1627.0	1645.9	1595.4	1434.4	856.9	101.0	75.7
30°	1881.0	1854.2	1811.6	1739.0	1685.4	1680.6	1658.5	1533.9	920.0	89.9	69.4
32.5°	2302.4	2269.2	2191.9	2057.8	1930.0	1832.1	1762.7	1617.5	964.2	78.9	61.5
35°	2670.1	2646.4	2556.4	2423.9	2240.8	2057.8	1931.5	1740.6	984.7	69.4	56.8
37.5°	2919.4	2909.9	2821.6	2679.5	2493.3	2277.1	2109.9	1866.8	980.0	58.4	52.1
40°	3028.3	2999.9	2925.7	2805.8	2618.0	2423.9	2247.1	1947.3	946.8	47.3	47.3
42.5°	3093.0	3061.4	2980.9	2867.3	2682.7	2476.0	2262.9	1912.6	867.9	37.9	45.8
45°	3184.5	3151.4	3045.6	2924.1	2737.9	2498.1	2201.4	1789.5	749.6	28.4	42.6
47.5°	3239.7	3217.6	3138.7	3017.2	2791.6	2466.5	2059.4	1674.3	618.6	22.1	41.0
50°	3072.5	3050.4	2992.0	2908.3	2756.9	2360.8	1934.7	1488.1	470.3	17.4	39.5
52.5°	2644.8	2663.8	2674.8	2698.5	2588.0	2124.1	1748.5	1339.8	317.2	14.2	36.3
55°	1791.1	1819.5	1851.1	1945.7	2075.1	1890.5	1552.8	1158.3	168.9	14.2	34.7
57.5°	1407.6	1398.2	1388.7	1382.4	1483.4	1559.1	1365.0	926.3	72.6	14.2	31.6
60°	1287.7	1259.3	1240.3	1245.1	1295.6	1265.6	1081.0	604.4	25.2	14.2	30.0
62.5°	844.3	866.4	909.0	981.5	946.8	812.7	628.1	239.9	12.6	14.2	26.8
65°	328.2	317.2	328.2	348.7	301.4	224.1	140.4	42.6	11.0	12.6	23.7
67.5°	44.2	39.5	30.0	18.9	17.4	15.8	12.6	11.0	11.0	12.6	22.1
70°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	9.5	9.5	11.0	18.9
72.5°	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	11.0	15.8
75°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	9.5	14.2
77.5°	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	7.9	11.0
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	9.5
82.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.7	4.7	6.3	7.9
85°	1.6	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	4.7	6.3
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	4.7	4.7
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):**

	112.5°	135°	157.5°	180°
0°	145.2	145.2	145.2	145.2
2.5°	143.6	140.4	140.4	140.4
5°	140.4	137.3	137.3	135.7
7.5°	135.7	134.1	134.1	134.1
10°	132.6	131.0	132.6	132.6
12.5°	126.2	127.8	129.4	129.4
15°	119.9	123.1	126.2	127.8
17.5°	113.6	119.9	123.1	124.7
20°	107.3	115.2	119.9	121.5
22.5°	102.6	110.5	116.8	119.9
25°	96.3	107.3	115.2	118.4
27.5°	89.9	102.6	112.0	116.8
30°	85.2	101.0	112.0	116.8
32.5°	80.5	97.8	110.5	115.2
35°	77.3	96.3	110.5	116.8
37.5°	74.2	94.7	110.5	115.2
40°	72.6	93.1	110.5	115.2
42.5°	71.0	93.1	110.5	116.8
45°	67.9	91.5	110.5	116.8
47.5°	66.3	91.5	110.5	116.8
50°	64.7	89.9	110.5	118.4
52.5°	63.1	88.4	110.5	118.4
55°	60.0	86.8	108.9	116.8
57.5°	58.4	85.2	107.3	113.6
60°	55.2	82.1	104.2	112.0
62.5°	52.1	78.9	101.0	107.3
65°	47.3	74.2	96.3	104.2
67.5°	42.6	67.9	91.5	99.4
70°	37.9	61.5	85.2	91.5
72.5°	33.1	55.2	78.9	83.6
75°	28.4	47.3	69.4	75.7
77.5°	23.7	41.0	58.4	63.1
80°	17.4	31.6	47.3	52.1
82.5°	14.2	23.7	34.7	37.9
85°	9.5	15.8	22.1	25.2
87.5°	4.7	7.9	11.0	12.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)