

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: P1311674

Luminaire Tested: LDSQA3D17R459040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311674  
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: LDSQA3D17R459040DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

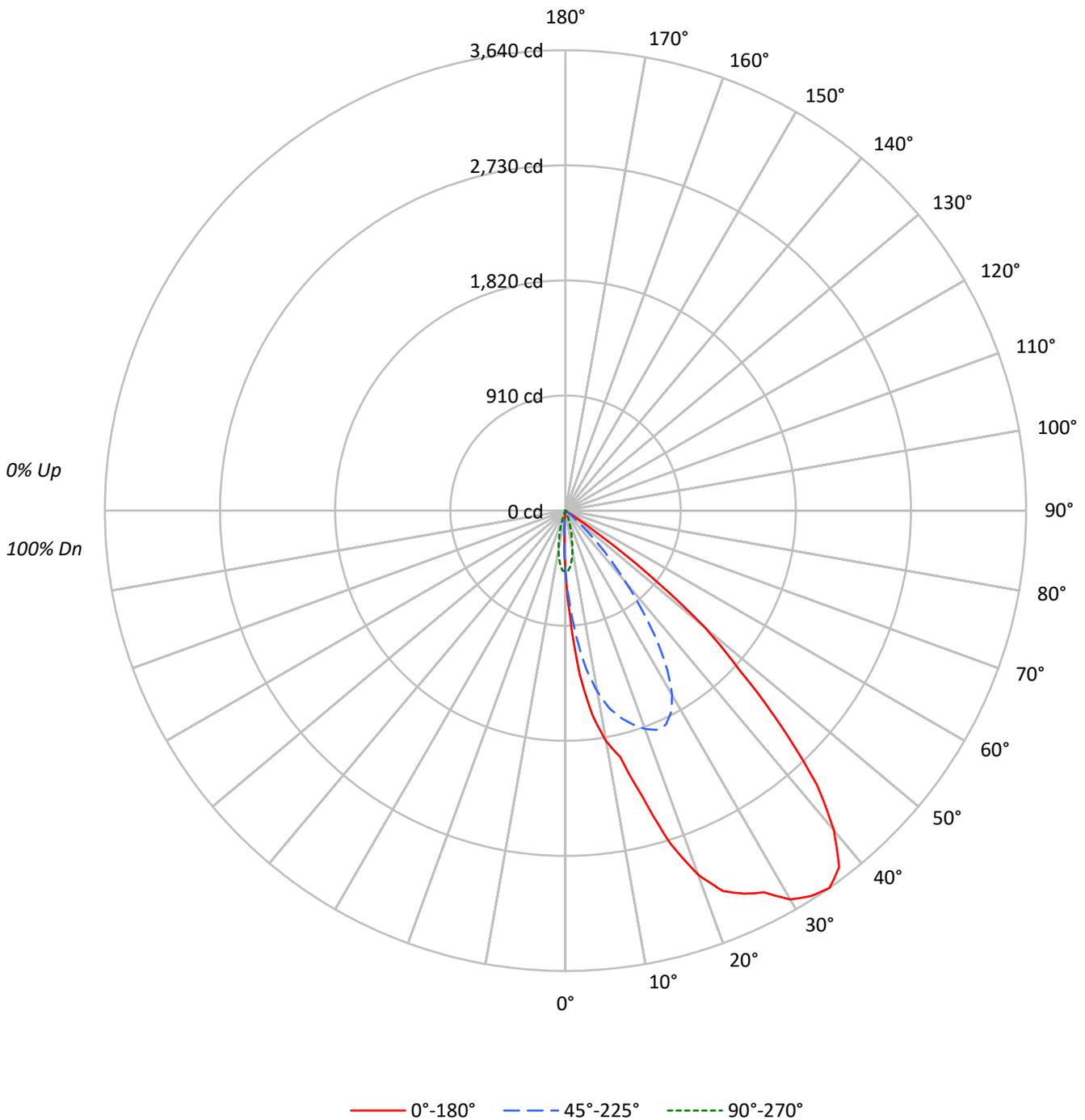
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1543.0 lumens  
Efficiency: N/A  
Efficacy: 72.8 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): 21.2  
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	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°	82529	82529	82529	82529	82529
5°	225315	173365	76379	15317	5740
10°	323597	254327	55227	1451	1207
15°	416593	302500	29384	499	0
20°	561501	336585	11161	0	0
25°	635069	355578	2888	0	0
30°	705933	335208	278	0	0
35°	765250	267306	0	0	0
40°	741706	167829	0	0	0
45°	587977	79936	0	0	0
50°	384829	10021	0	0	0
55°	66117	0	0	0	0
60°	0	0	482	0	0
65°	0	571	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	1389	0
85°	0	2766	5533	2766	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 587977 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.0	3.7
10°-20°	219.8	14.2
20°-30°	411.5	26.7
30°-40°	480.3	31.1
40°-50°	313.2	20.3
50°-60°	58.1	3.8
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.3	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°	688.4	44.6
0°-40°	1168.7	75.7
0°-60°	1540.0	99.8
0°-90°	1543.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1543.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	479	479	479	479	479	
5°	1303	1003	442	89	33	140
15°	2336	1697	165	3	0	696
25°	3342	1871	15	0	0	1545
35°	3640	1271	0	0	0	2232
45°	2414	328	0	0	0	1836
55°	220	0	0	0	0	383
65°	0	1	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2
2.5°	844.9	851.8	837.9	832.4	814.4	818.5	788.1	775.6	756.2	724.4	709.1
5°	1303.3	1290.8	1279.8	1256.2	1242.4	1205.0	1163.4	1116.3	1059.5	1002.8	937.7
7.5°	1630.2	1620.5	1616.3	1596.9	1569.2	1530.4	1476.4	1416.9	1343.5	1267.3	1169.0
10°	1850.4	1840.7	1824.1	1804.7	1782.5	1750.7	1698.0	1632.9	1552.6	1454.3	1339.3
12.5°	1994.4	1993.0	1965.3	1943.2	1915.5	1887.8	1833.8	1781.1	1702.2	1601.1	1470.9
15°	2336.5	2314.4	2278.3	2216.0	2138.5	2066.4	1979.2	1896.1	1810.2	1696.6	1551.2
17.5°	2763.1	2738.2	2677.2	2598.3	2473.6	2336.5	2186.9	2055.4	1926.6	1772.8	1601.1
20°	3063.7	3054.0	3002.7	2911.3	2778.3	2596.9	2400.2	2214.6	2033.2	1836.5	1624.6
22.5°	3256.2	3250.6	3229.9	3167.5	3031.8	2828.2	2574.7	2325.4	2106.6	1876.7	1617.7
25°	3342.0	3349.0	3351.7	3321.3	3211.8	3004.1	2703.5	2409.9	2148.2	1871.2	1565.1
27.5°	3403.0	3403.0	3414.1	3400.2	3289.4	3070.6	2753.4	2439.0	2134.3	1803.3	1454.3
30°	3549.8	3547.0	3553.9	3516.6	3362.8	3091.4	2731.2	2391.9	2055.4	1685.6	1295.0
32.5°	3613.5	3616.3	3614.9	3555.3	3376.7	3077.5	2677.2	2301.9	1909.9	1501.4	1084.5
35°	3639.8	3627.4	3576.1	3440.4	3214.6	2893.3	2524.9	2149.5	1706.3	1271.4	855.9
37.5°	3552.6	3516.6	3403.0	3217.4	2941.8	2632.9	2272.8	1876.7	1436.3	997.2	644.0
40°	3299.1	3252.0	3109.4	2885.0	2632.9	2354.5	1975.0	1556.8	1123.2	746.5	451.5
42.5°	2940.4	2886.4	2732.6	2537.3	2307.4	2015.2	1637.1	1218.8	822.7	515.2	286.7
45°	2414.1	2383.6	2295.0	2130.2	1904.4	1601.1	1254.8	889.2	569.2	328.2	146.8
47.5°	1867.0	1828.2	1764.5	1650.9	1462.6	1174.5	878.1	603.9	365.6	162.0	30.5
50°	1436.3	1390.6	1313.0	1187.0	990.3	783.9	569.2	376.7	185.6	37.4	1.4
52.5°	826.9	836.5	799.2	718.8	609.4	469.5	329.6	189.7	41.6	1.4	0.0
55°	220.2	238.2	232.7	250.7	220.2	185.6	137.1	36.0	2.8	0.0	0.0
57.5°	0.0	0.0	1.4	2.8	8.3	12.5	4.2	1.4	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	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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°	479.2	479.2	479.2	479.2	479.2	479.2	479.2	479.2
2.5°	674.5	645.4	609.4	476.4	358.7	257.6	200.8	185.6
5°	875.3	804.7	713.3	441.8	221.6	88.6	40.2	33.2
7.5°	1065.1	961.2	796.4	386.4	112.2	22.2	11.1	9.7
10°	1211.9	1072.0	857.3	315.8	41.6	8.3	6.9	6.9
12.5°	1313.0	1142.6	879.5	239.6	15.2	4.2	4.2	2.8
15°	1371.2	1170.3	858.7	164.8	5.5	2.8	0.0	0.0
17.5°	1389.2	1159.3	803.3	103.9	1.4	0.0	0.0	0.0
20°	1373.9	1105.2	716.1	60.9	0.0	0.0	0.0	0.0
22.5°	1324.1	1020.8	610.8	33.2	0.0	0.0	0.0	0.0
25°	1231.3	901.6	487.5	15.2	0.0	0.0	0.0	0.0
27.5°	1080.3	747.9	367.0	5.5	0.0	0.0	0.0	0.0
30°	908.6	583.1	260.4	1.4	0.0	0.0	0.0	0.0
32.5°	709.1	429.4	167.6	0.0	0.0	0.0	0.0	0.0
35°	533.2	300.5	99.7	0.0	0.0	0.0	0.0	0.0
37.5°	371.2	189.7	52.6	0.0	0.0	0.0	0.0	0.0
40°	231.3	102.5	18.0	0.0	0.0	0.0	0.0	0.0
42.5°	128.8	36.0	1.4	0.0	0.0	0.0	0.0	0.0
45°	30.5	2.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.4	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	1.4	0.0	0.0	0.0	0.0
60°	0.0	1.4	1.4	1.4	0.0	0.0	0.0	0.0
62.5°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
65°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
67.5°	1.4	1.4	1.4	1.4	1.4	0.0	0.0	0.0
70°	1.4	1.4	1.4	2.8	1.4	0.0	0.0	0.0
72.5°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
75°	1.4	1.4	2.8	2.8	1.4	0.0	0.0	0.0
77.5°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
80°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
82.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
85°	1.4	2.8	2.8	2.8	1.4	1.4	0.0	0.0
87.5°	1.4	2.8	2.8	2.8	2.8	1.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)