

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: P1318384

Luminaire Tested: LDSQA3D13R409830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318384  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R409830DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

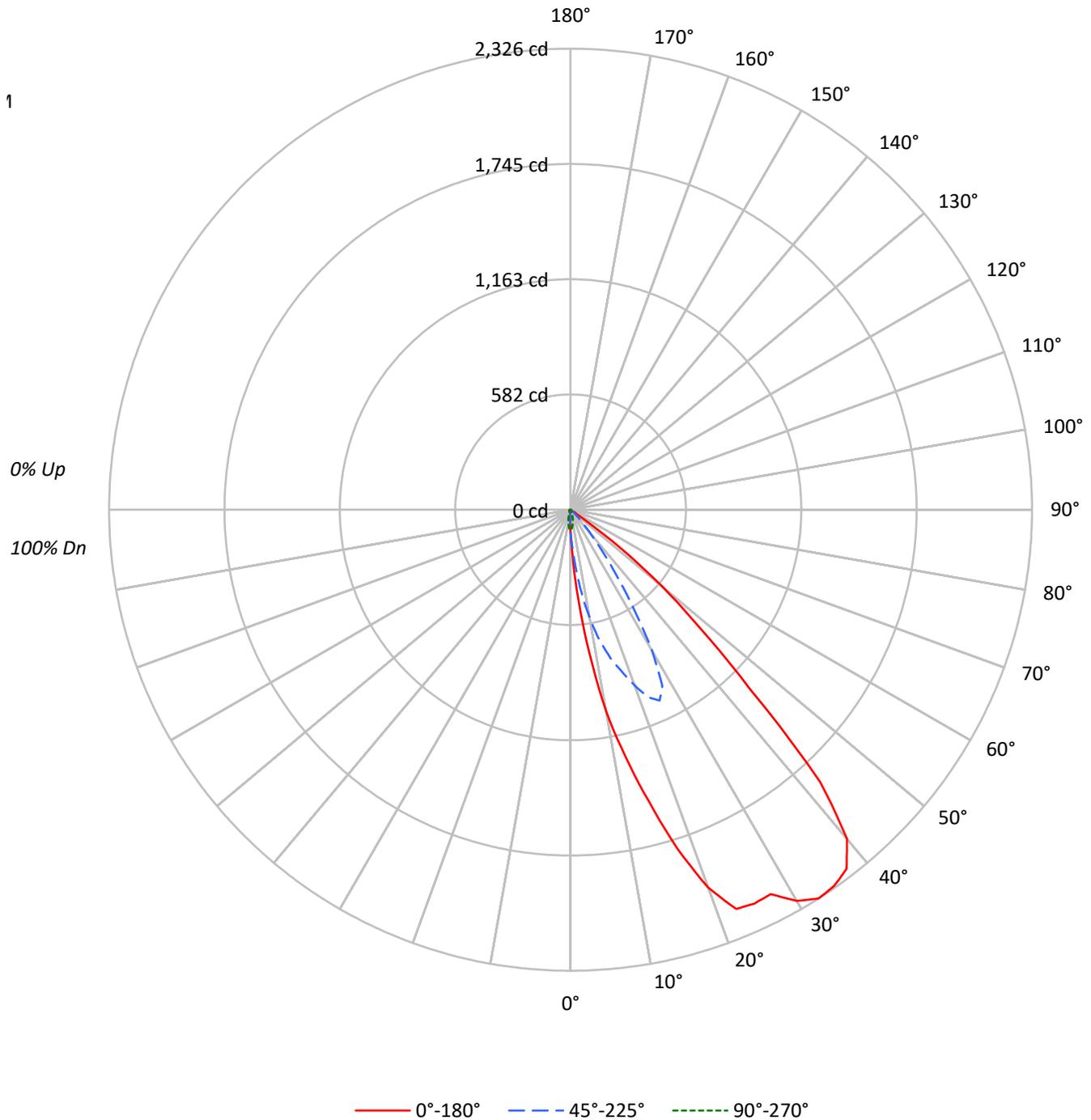
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 858.1 lumens  
Efficiency: N/A  
Efficacy: 59.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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	97	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	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	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	60	56	64	60	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	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	17481	17481	17481	17481	17481
5°	78851	50274	15663	6016	4391
10°	180843	97146	11035	2151	1644
15°	271387	137824	6847	1159	1034
20°	371609	172774	3995	660	806
25°	416576	201884	2071	551	684
30°	453115	162950	875	438	716
35°	486970	83404	315	610	925
40°	487141	33251	157	652	1147
45°	311026	11131	365	1072	1583
50°	161455	1366	589	1366	1956
55°	13932	210	661	1742	2402
60°	517	241	758	1998	2756
65°	611	285	1182	2078	2975
70°	352	352	1460	2216	2921
75°	466	466	1464	2396	3394
80°	694	694	2182	2182	2876
85°	0	1383	4347	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 311026 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.8	2.3
10°-20°	116.1	13.5
20°-30°	254.3	29.6
30°-40°	289.7	33.8
40°-50°	152.9	17.8
50°-60°	18.0	2.1
60°-70°	3.3	0.4
70°-80°	2.7	0.3
80°-90°	1.2	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°	390.2	45.5
0°-40°	680.0	79.2
0°-60°	850.9	99.2
0°-90°	858.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	858.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	102	102	102	102	102	
5°	456	291	91	35	25	61
15°	1522	773	38	6	6	448
25°	2192	1062	11	3	4	1010
35°	2316	397	2	3	4	1436
45°	1277	46	2	4	6	1030
55°	46	1	2	6	8	144
65°	2	1	3	5	7	1
75°	1	1	2	4	5	1
85°	0	1	2	2	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5	101.5
2.5°	226.3	226.3	225.5	219.0	218.3	217.5	205.9	203.0	189.3	179.8	137.1
5°	456.1	446.0	445.3	433.6	414.1	388.0	371.3	344.5	318.3	290.8	169.0
7.5°	726.6	735.3	711.4	699.1	655.6	624.4	576.5	534.4	475.7	420.6	195.1
10°	1034.1	1018.9	994.9	971.0	923.9	868.0	797.0	722.3	637.4	555.5	209.6
12.5°	1274.1	1254.5	1240.0	1207.4	1161.0	1089.2	1004.4	904.3	791.9	673.7	208.8
15°	1522.1	1502.5	1469.9	1440.9	1372.0	1291.5	1199.4	1067.4	929.7	773.0	193.6
17.5°	1794.8	1769.4	1733.1	1688.9	1622.2	1533.0	1416.2	1255.3	1060.2	854.2	166.1
20°	2027.6	2012.3	1976.1	1923.9	1858.6	1771.6	1636.7	1458.3	1220.5	942.7	132.0
22.5°	2179.8	2166.1	2141.4	2095.7	2046.4	1953.6	1830.3	1634.5	1354.6	1023.2	100.1
25°	2192.2	2186.4	2179.8	2164.6	2134.9	2068.9	1948.5	1737.5	1438.0	1062.4	74.0
27.5°	2185.7	2183.5	2182.0	2174.0	2154.5	2089.2	1965.9	1752.7	1427.1	1001.5	54.4
30°	2278.5	2271.9	2268.3	2242.2	2190.7	2089.9	1928.9	1670.8	1268.3	819.4	39.2
32.5°	2325.6	2324.2	2320.5	2295.2	2222.6	2091.4	1866.6	1472.8	1005.8	591.7	26.8
35°	2316.2	2308.9	2295.9	2248.7	2147.9	1983.3	1665.0	1176.2	725.9	396.7	17.4
37.5°	2284.3	2267.6	2242.2	2157.4	2023.2	1798.4	1350.3	865.8	493.8	256.7	10.2
40°	2166.8	2144.3	2104.4	2000.7	1824.5	1482.2	998.6	585.2	324.1	147.9	2.9
42.5°	1863.0	1833.9	1804.9	1688.9	1487.3	1105.2	657.0	361.9	184.9	81.2	0.7
45°	1277.0	1240.8	1200.9	1116.8	955.0	669.3	390.9	203.8	95.7	45.7	0.7
47.5°	886.9	870.2	800.6	693.3	531.5	354.6	202.3	100.1	50.8	21.0	0.7
50°	602.6	583.8	502.5	398.8	282.8	169.7	92.8	50.0	22.5	5.1	0.7
52.5°	316.2	293.0	241.5	184.2	114.6	71.1	40.6	21.8	6.5	0.7	0.7
55°	46.4	42.8	34.8	28.3	25.4	19.6	11.6	5.1	0.7	0.7	1.5
57.5°	1.5	1.5	1.5	1.5	2.2	2.2	1.5	0.7	0.7	0.7	1.5
60°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
65°	1.5	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5
67.5°	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7	1.5	2.2
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.2
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	2.2
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.5
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):**

	90°	112.5°	135°	157.5°	180°
0°	101.5	101.5	101.5	101.5	101.5
2.5°	100.1	74.0	57.3	49.3	48.6
5°	90.6	52.9	34.8	26.8	25.4
7.5°	76.9	37.0	20.3	14.5	13.8
10°	63.1	25.4	12.3	10.2	9.4
12.5°	50.0	16.7	8.7	8.0	7.3
15°	38.4	10.9	6.5	5.8	5.8
17.5°	29.0	7.3	5.1	5.1	5.1
20°	21.8	5.1	3.6	4.4	4.4
22.5°	15.2	3.6	2.9	3.6	3.6
25°	10.9	2.9	2.9	3.6	3.6
27.5°	7.3	2.2	2.2	2.9	3.6
30°	4.4	1.5	2.2	2.9	3.6
32.5°	2.2	1.5	2.2	3.6	3.6
35°	1.5	2.2	2.9	3.6	4.4
37.5°	0.7	2.2	2.9	4.4	4.4
40°	0.7	2.2	2.9	4.4	5.1
42.5°	1.5	2.9	3.6	5.1	5.8
45°	1.5	2.9	4.4	5.8	6.5
47.5°	1.5	2.9	5.1	6.5	6.5
50°	2.2	3.6	5.1	6.5	7.3
52.5°	2.2	3.6	5.1	7.3	8.0
55°	2.2	3.6	5.8	7.3	8.0
57.5°	2.2	4.4	5.8	7.3	8.0
60°	2.2	3.6	5.8	7.3	8.0
62.5°	2.9	3.6	5.1	7.3	7.3
65°	2.9	3.6	5.1	7.3	7.3
67.5°	2.9	3.6	5.1	6.5	6.5
70°	2.9	3.6	4.4	5.8	5.8
72.5°	2.9	3.6	4.4	5.1	5.8
75°	2.2	2.9	3.6	4.4	5.1
77.5°	2.2	2.9	2.9	4.4	4.4
80°	2.2	2.2	2.2	2.9	2.9
82.5°	2.2	2.2	1.5	2.2	2.2
85°	2.2	1.5	1.5	1.5	1.5
87.5°	1.5	1.5	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)