

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: P1316279

Luminaire Tested: LDSQA3D05R359740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

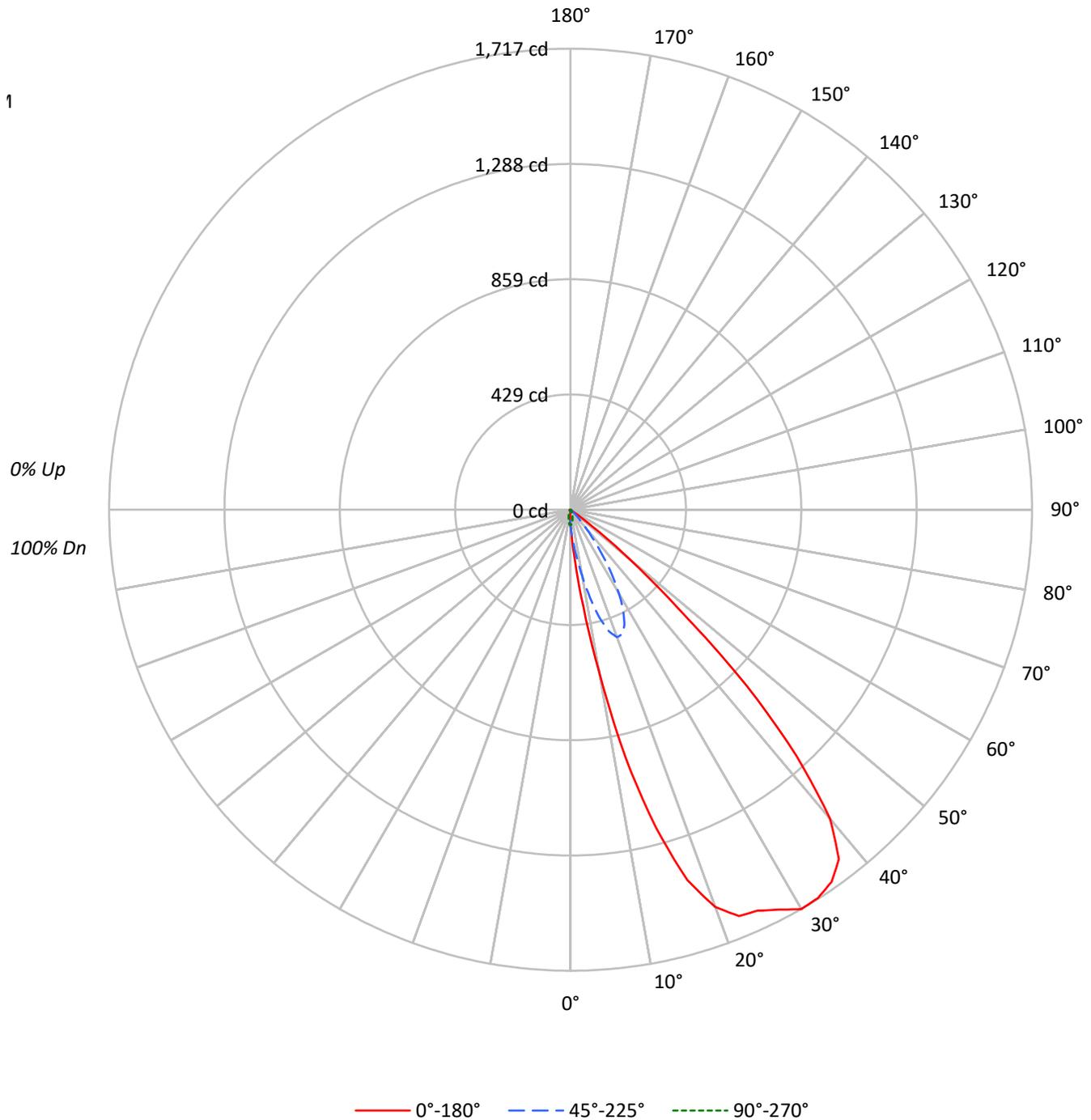
Test Method: LM-79-2019  
Report Number: P1316279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R359740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 540.1 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Spacing Criteria (0/90/45): 2.45 / 0.5 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	84	89	87	84	83
3	99	91	85	81	97	90	84	80	87	83	79	85	81	77	82	79	76	82	79	76	74
4	92	83	77	72	91	82	76	71	80	75	71	78	73	70	76	72	69	76	72	69	67
5	86	76	69	64	85	75	69	64	74	68	63	72	67	63	70	66	62	70	66	62	60
6	81	70	63	58	79	69	62	58	68	62	57	66	61	57	65	60	56	65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	46	42	51	46	42	51	46	42	41
10	62	50	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	47	42	39	37

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

	0°	45°	90°	135°	180°
0°	9765	9765	9765	9765	9765
5°	33262	21627	9128	3855	2853
10°	107061	43825	7205	1434	927
15°	218148	74332	5099	517	339
20°	288457	92572	3281	183	183
25°	312993	89997	1843	95	190
30°	341432	71711	776	99	199
35°	355777	44635	210	105	210
40°	337613	19514	112	225	337
45°	225390	7794	122	365	585
50°	75583	1286	268	509	777
55°	4234	150	300	721	1021
60°	344	172	517	827	1171
65°	408	204	611	978	1386
70°	252	252	755	1209	1460
75°	333	333	998	1264	1597
80°	0	496	1488	1488	1488
85°	0	988	2964	988	1976

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 225390 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.8	1.8
10°-20°	77.5	14.4
20°-30°	163.7	30.3
30°-40°	185.7	34.4
40°-50°	91.4	16.9
50°-60°	7.9	1.5
60°-70°	1.6	0.3
70°-80°	1.5	0.3
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°	251.1	46.5
0°-40°	436.8	80.9
0°-60°	536.2	99.3
0°-90°	540.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	540.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	192	125	53	22	16	32
15°	1224	417	29	3	2	348
25°	1647	474	10	0	1	766
35°	1692	212	1	0	1	1043
45°	925	32	0	2	2	684
55°	14	0	1	2	3	55
65°	1	0	2	2	3	1
75°	0	0	2	2	2	0
85°	0	0	2	0	1	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°	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7	56.7
2.5°	98.4	100.8	99.9	99.4	98.9	96.9	92.6	92.1	87.7	84.8	70.3
5°	192.4	188.6	189.5	184.2	177.4	167.7	161.4	147.8	136.7	125.1	81.9
7.5°	362.6	357.3	347.1	331.6	315.6	294.7	263.2	238.0	208.9	181.3	91.1
10°	612.2	609.3	596.2	556.5	521.6	465.8	413.5	358.2	303.9	250.6	97.4
12.5°	945.7	925.8	902.1	849.3	780.4	710.6	607.4	511.9	425.1	335.9	97.9
15°	1223.5	1210.9	1177.4	1108.6	1025.7	924.9	802.2	673.8	542.9	416.9	93.1
17.5°	1446.9	1427.6	1384.4	1317.0	1221.5	1090.7	947.2	790.6	631.1	474.6	84.8
20°	1573.9	1563.8	1530.8	1463.4	1359.2	1216.2	1052.9	870.6	686.4	505.1	74.2
22.5°	1637.9	1630.7	1606.4	1552.6	1455.2	1311.2	1124.1	912.3	702.4	501.7	63.0
25°	1647.1	1645.2	1624.4	1583.6	1502.2	1359.7	1155.1	920.0	689.3	473.6	52.4
27.5°	1679.1	1672.3	1647.6	1606.9	1525.0	1367.9	1144.5	893.4	647.1	424.1	43.6
30°	1716.9	1712.1	1687.4	1645.2	1548.3	1360.2	1106.7	834.2	579.7	360.6	32.5
32.5°	1714.0	1712.1	1691.3	1646.7	1531.8	1314.6	1039.3	745.5	488.1	284.5	20.4
35°	1692.2	1685.4	1659.3	1590.4	1437.7	1197.3	911.3	625.3	386.3	212.3	13.1
37.5°	1639.9	1625.3	1581.2	1464.4	1269.5	1016.5	742.1	482.8	273.4	142.0	8.2
40°	1501.7	1483.3	1394.6	1253.5	1049.5	800.8	552.1	332.0	180.3	86.8	3.4
42.5°	1245.8	1208.5	1119.7	974.8	783.3	566.2	362.6	215.2	106.2	52.4	1.0
45°	925.4	896.8	803.7	672.3	513.3	363.1	219.6	116.3	58.7	32.0	0.5
47.5°	539.0	521.6	473.6	387.3	283.6	190.5	112.5	62.5	34.4	15.5	0.5
50°	282.1	260.3	223.9	169.7	125.1	87.7	54.8	33.4	17.0	4.8	0.5
52.5°	98.9	97.4	88.7	66.9	54.3	39.3	26.7	14.5	4.8	1.0	0.5
55°	14.1	14.1	13.1	14.5	15.5	14.1	9.2	3.9	1.0	0.5	0.5
57.5°	1.0	1.0	1.0	1.5	1.9	1.9	1.5	0.5	0.5	0.5	1.0
60°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
62.5°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
65°	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
77.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.0
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°	56.7	56.7	56.7	56.7	56.7
2.5°	56.2	45.1	35.9	31.5	30.1
5°	52.8	33.9	22.3	17.5	16.5
7.5°	47.0	24.2	13.6	9.7	9.2
10°	41.2	17.5	8.2	5.8	5.3
12.5°	34.4	12.1	5.3	3.4	2.9
15°	28.6	8.2	2.9	2.4	1.9
17.5°	22.8	5.3	1.9	1.5	1.9
20°	17.9	3.4	1.0	1.0	1.0
22.5°	13.6	1.9	1.0	1.0	1.0
25°	9.7	1.0	0.5	0.5	1.0
27.5°	6.8	0.5	0.5	0.5	1.0
30°	3.9	0.5	0.5	0.5	1.0
32.5°	1.9	0.5	0.5	1.0	1.0
35°	1.0	0.5	0.5	1.0	1.0
37.5°	0.5	0.5	0.5	1.0	1.5
40°	0.5	0.5	1.0	1.5	1.5
42.5°	0.5	0.5	1.0	1.5	1.9
45°	0.5	1.0	1.5	1.9	2.4
47.5°	1.0	1.0	1.9	2.4	2.9
50°	1.0	1.5	1.9	2.9	2.9
52.5°	1.0	1.5	2.4	2.9	3.4
55°	1.0	1.9	2.4	3.4	3.4
57.5°	1.5	1.9	2.4	3.4	3.4
60°	1.5	1.9	2.4	3.4	3.4
62.5°	1.5	1.9	2.4	3.4	3.4
65°	1.5	1.9	2.4	3.4	3.4
67.5°	1.5	1.9	2.4	2.9	3.4
70°	1.5	1.9	2.4	2.9	2.9
72.5°	1.9	1.9	2.4	2.9	2.9
75°	1.5	1.9	1.9	2.4	2.4
77.5°	1.5	1.5	1.5	1.9	1.9
80°	1.5	1.5	1.5	1.5	1.5
82.5°	1.5	1.0	1.0	1.5	1.5
85°	1.5	1.0	0.5	1.0	1.0
87.5°	1.0	1.0	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)