

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: P1307814

Luminaire Tested: LDSQA3D05R359027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

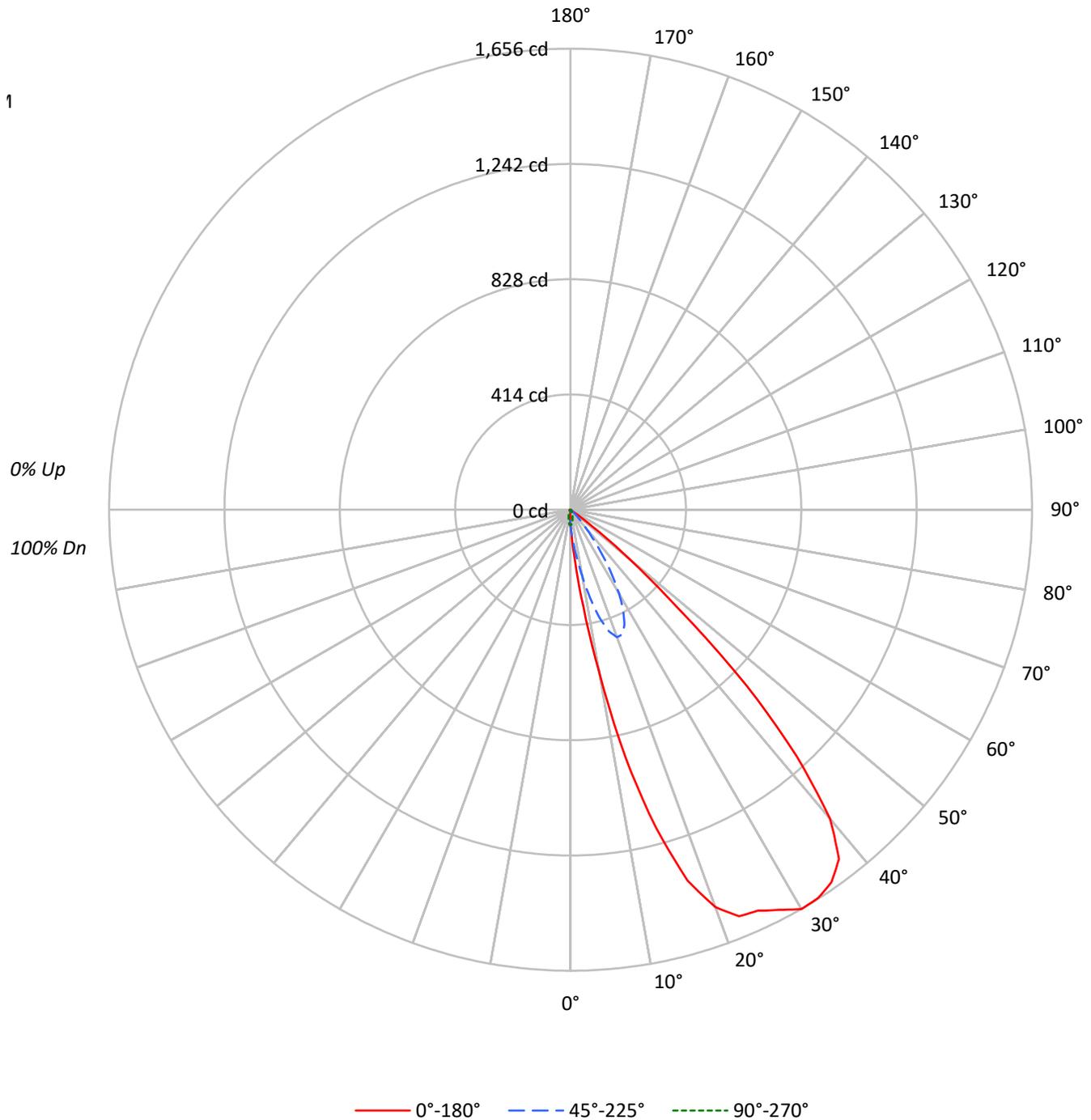
Test Method: LM-79-2019  
Report Number: P1307814  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-63)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R359027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R35 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 521.0 lumens  
Efficiency: N/A  
Efficacy: 72.4 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				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	61
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°	9421	9421	9421	9421	9421
5°	32104	20867	8817	3717	2749
10°	103301	42286	6960	1399	892
15°	210463	71711	4921	499	339
20°	278322	89310	3171	165	165
25°	301990	86823	1786	95	171
30°	329421	69205	736	99	179
35°	343267	43058	189	105	189
40°	325743	18817	112	202	315
45°	217450	7526	122	341	560
50°	72931	1259	241	509	750
55°	4084	150	270	691	991
60°	310	172	482	792	1137
65°	367	204	571	937	1345
70°	252	252	705	1158	1410
75°	333	333	932	1264	1530
80°	0	496	1389	1389	1389
85°	0	988	2766	988	1778

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 217450 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.5	1.8
10°-20°	74.8	14.4
20°-30°	157.9	30.3
30°-40°	179.2	34.4
40°-50°	88.2	16.9
50°-60°	7.6	1.5
60°-70°	1.6	0.3
70°-80°	1.5	0.3
80°-90°	0.7	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°	242.3	46.5
0°-40°	421.5	80.9
0°-60°	517.3	99.3
0°-90°	521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	186	121	51	22	16	31
15°	1180	402	28	3	2	336
25°	1589	457	9	0	1	739
35°	1633	205	1	0	1	1006
45°	893	31	0	1	2	660
55°	14	0	1	2	3	53
65°	1	0	1	2	3	1
75°	0	0	1	2	2	0
85°	0	0	1	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°	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7	54.7
2.5°	94.9	97.3	96.3	95.9	95.4	93.5	89.3	88.9	84.7	81.8	67.8
5°	185.7	181.9	182.9	177.7	171.2	161.8	155.7	142.6	131.9	120.7	79.0
7.5°	349.8	344.7	334.9	319.9	304.5	284.4	254.0	229.6	201.6	174.9	87.9
10°	590.7	587.9	575.2	536.9	503.2	449.4	398.9	345.6	293.2	241.8	94.0
12.5°	912.4	893.3	870.4	819.4	753.0	685.6	586.0	493.9	410.2	324.1	94.5
15°	1180.4	1168.3	1136.0	1069.6	989.6	892.3	774.0	650.1	523.8	402.2	89.8
17.5°	1396.0	1377.3	1335.7	1270.7	1178.6	1052.3	913.9	762.8	608.9	457.9	81.8
20°	1518.6	1508.7	1476.9	1411.9	1311.4	1173.4	1015.8	840.0	662.2	487.3	71.6
22.5°	1580.3	1573.3	1549.9	1498.0	1404.0	1265.1	1084.6	880.2	677.7	484.1	60.8
25°	1589.2	1587.3	1567.2	1527.9	1449.3	1311.8	1114.5	887.7	665.0	456.9	50.5
27.5°	1620.1	1613.5	1589.7	1550.4	1471.3	1319.8	1104.2	861.9	624.4	409.2	42.1
30°	1656.5	1651.9	1628.0	1587.3	1493.8	1312.3	1067.7	804.9	559.3	348.0	31.3
32.5°	1653.7	1651.9	1631.7	1588.7	1477.9	1268.4	1002.7	719.3	471.0	274.5	19.6
35°	1632.7	1626.1	1600.9	1534.5	1387.1	1155.2	879.2	603.3	372.7	204.8	12.6
37.5°	1582.2	1568.1	1525.6	1412.9	1224.9	980.7	716.0	465.8	263.8	137.0	8.0
40°	1448.9	1431.1	1345.5	1209.4	1012.5	772.6	532.7	320.4	174.0	83.7	3.3
42.5°	1201.9	1165.9	1080.3	940.5	755.8	546.3	349.8	207.7	102.4	50.5	0.9
45°	892.8	865.2	775.4	648.7	495.3	350.3	211.9	112.2	56.6	30.9	0.5
47.5°	520.1	503.2	456.9	373.7	273.6	183.8	108.5	60.3	33.2	15.0	0.5
50°	272.2	251.1	216.1	163.7	120.7	84.7	52.8	32.3	16.4	4.7	0.5
52.5°	95.4	94.0	85.6	64.5	52.4	37.9	25.7	14.0	4.7	0.9	0.5
55°	13.6	13.6	12.6	14.0	15.0	13.6	8.9	3.7	0.9	0.5	0.5
57.5°	0.9	0.9	0.9	1.4	1.9	1.9	1.4	0.5	0.5	0.5	0.9
60°	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
62.5°	0.9	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
65°	0.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	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):**

	90°	112.5°	135°	157.5°	180°
0°	54.7	54.7	54.7	54.7	54.7
2.5°	54.3	43.5	34.6	30.4	29.0
5°	51.0	32.7	21.5	16.8	15.9
7.5°	45.4	23.4	13.1	9.4	8.9
10°	39.8	16.8	8.0	5.6	5.1
12.5°	33.2	11.7	5.1	3.3	2.8
15°	27.6	8.0	2.8	2.3	1.9
17.5°	22.0	5.1	1.9	1.4	1.9
20°	17.3	3.3	0.9	0.9	0.9
22.5°	13.1	1.9	0.9	0.9	0.9
25°	9.4	0.9	0.5	0.5	0.9
27.5°	6.5	0.5	0.5	0.5	0.9
30°	3.7	0.5	0.5	0.5	0.9
32.5°	1.9	0.5	0.5	0.9	0.9
35°	0.9	0.5	0.5	0.9	0.9
37.5°	0.5	0.5	0.5	0.9	1.4
40°	0.5	0.5	0.9	1.4	1.4
42.5°	0.5	0.5	0.9	1.4	1.9
45°	0.5	0.9	1.4	1.9	2.3
47.5°	0.9	0.9	1.9	2.3	2.8
50°	0.9	1.4	1.9	2.8	2.8
52.5°	0.9	1.4	2.3	2.8	3.3
55°	0.9	1.9	2.3	3.3	3.3
57.5°	1.4	1.9	2.3	3.3	3.3
60°	1.4	1.9	2.3	3.3	3.3
62.5°	1.4	1.9	2.3	3.3	3.3
65°	1.4	1.9	2.3	3.3	3.3
67.5°	1.4	1.9	2.3	2.8	3.3
70°	1.4	1.9	2.3	2.8	2.8
72.5°	1.9	1.9	2.3	2.8	2.8
75°	1.4	1.9	1.9	2.3	2.3
77.5°	1.4	1.4	1.4	1.9	1.9
80°	1.4	1.4	1.4	1.4	1.4
82.5°	1.4	0.9	0.9	1.4	1.4
85°	1.4	0.9	0.5	0.9	0.9
87.5°	0.9	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)