

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: P1319891

Luminaire Tested: LDSQA3D05R709840DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

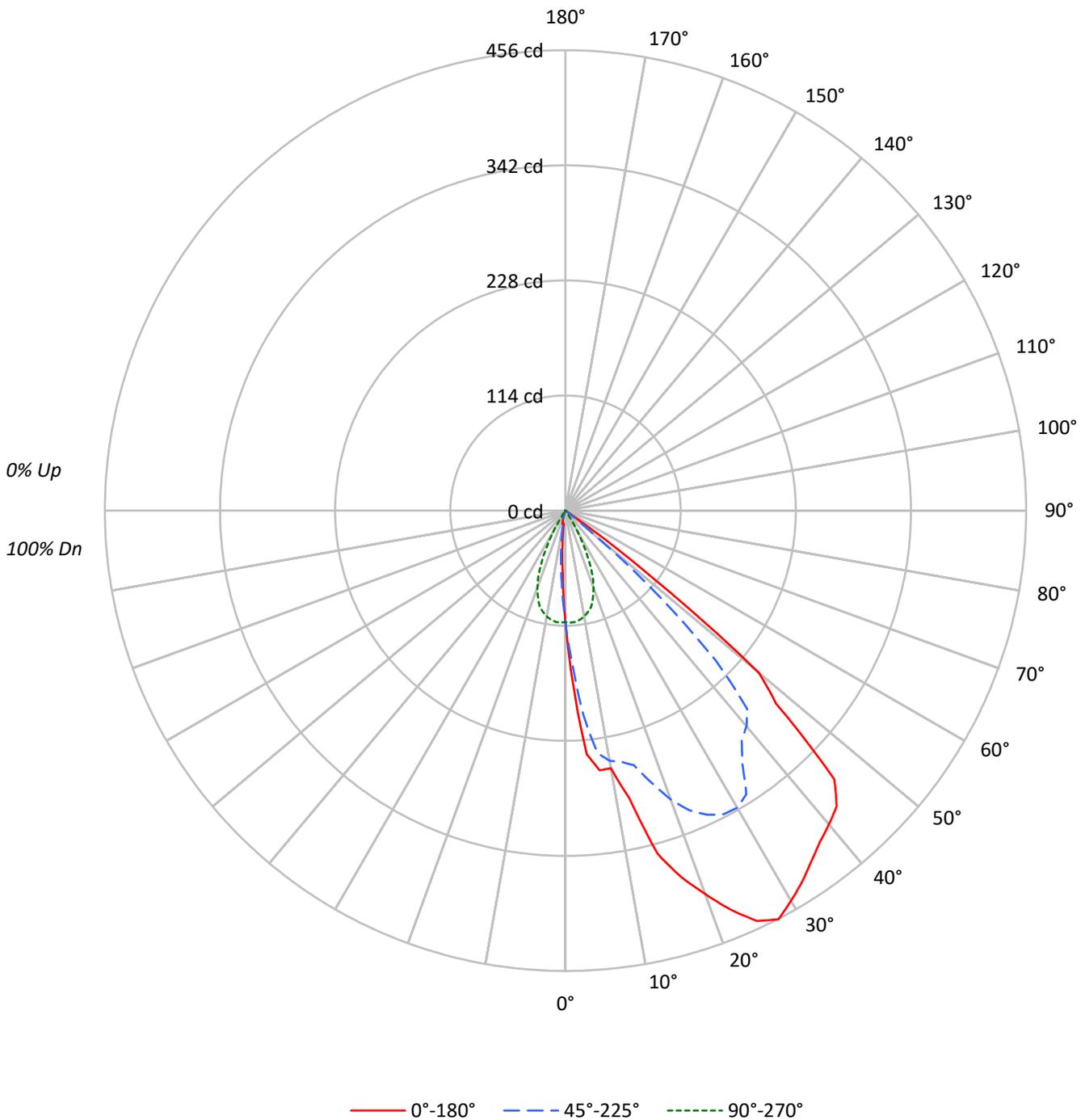
Test Method: LM-79-2019  
Report Number: P1319891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709840DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 297.0 lumens  
Efficiency: N/A  
Efficacy: 41.2 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
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 (Ain): 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

TEST NUMBER: P1319891  
CATALOG NUMBER: LDSQA3D05R709840DE010 3LSQCA30R 1MB

### 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	100			100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82			82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73			73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66			66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59			59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53			53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48			48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43			43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39			39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36			36

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

	0°	45°	90°	135°	180°
0°	18979	18979	18979	18979	18979
5°	41872	35147	19121	8696	5722
10°	45294	43982	18625	2413	2483
15°	62690	46554	17562	2461	1801
20°	74043	55771	14900	1466	531
25°	85227	63165	10508	247	0
30°	88774	67594	4832	0	0
35°	89165	64062	273	0	0
40°	91210	62658	0	0	0
45°	91676	51342	0	0	0
50°	66929	10664	0	0	0
55°	3783	0	0	0	0
60°	0	138	138	0	0
65°	0	0	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	397	397	0
85°	0	790	790	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 93405 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.1	4.1
10°-20°	40.3	13.6
20°-30°	72.4	24.4
30°-40°	88.0	29.6
40°-50°	67.9	22.9
50°-60°	15.8	5.3
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	124.7	42.0
0°-40°	212.7	71.6
0°-60°	296.5	99.8
0°-90°	297.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	297.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	110	110	110	110	110	
5°	242	203	111	50	33	23
15°	352	261	98	14	10	98
25°	448	332	55	1	0	204
35°	424	305	1	0	0	266
45°	376	211	0	0	0	266
55°	13	0	0	0	0	52
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
2.5°	171.8	171.8	172.7	172.3	168.5	166.8	161.4	158.4	157.6	150.9	148.4
5°	242.2	242.7	240.6	240.2	236.0	233.0	228.4	221.3	214.2	203.3	193.6
7.5°	259.4	259.0	258.6	258.6	257.8	256.1	254.0	251.9	249.0	242.2	234.7
10°	259.0	259.0	258.6	258.6	258.2	258.6	258.2	256.9	255.7	251.5	247.3
12.5°	291.7	289.2	285.8	280.8	272.4	266.1	259.0	256.9	256.1	254.8	252.3
15°	351.6	349.5	342.4	333.6	325.2	311.0	299.7	284.2	272.0	261.1	255.7
17.5°	380.6	381.8	373.9	368.4	360.4	349.1	335.7	319.8	302.6	282.1	265.7
20°	404.0	405.3	398.6	393.1	383.9	372.2	360.4	343.3	326.9	304.3	282.9
22.5°	427.9	428.8	422.5	414.5	404.0	391.9	376.8	359.2	341.6	321.5	298.8
25°	448.5	447.6	437.1	425.8	415.8	402.8	388.1	370.9	354.2	332.4	311.0
27.5°	456.4	456.0	444.3	433.4	421.6	404.0	391.0	375.9	358.3	339.1	317.3
30°	446.4	453.1	445.5	437.6	423.3	405.7	393.1	375.1	358.8	339.9	315.2
32.5°	435.9	444.3	441.7	438.0	421.2	407.4	391.0	374.3	355.0	333.2	295.5
35°	424.1	432.9	433.4	429.2	414.1	400.3	385.2	367.6	345.8	304.7	277.0
37.5°	413.7	422.0	424.6	415.8	404.0	385.6	371.8	353.3	313.9	286.3	272.0
40°	405.7	412.0	415.8	401.9	390.2	372.2	356.2	324.0	288.4	278.7	258.6
42.5°	397.3	403.2	404.9	389.8	371.8	354.6	331.5	290.9	280.4	266.1	212.1
45°	376.4	383.5	379.3	364.6	351.2	333.2	298.8	281.2	269.9	210.8	130.3
47.5°	282.5	290.4	301.8	306.0	310.6	297.6	278.7	272.4	221.7	127.8	40.7
50°	249.8	248.5	248.5	250.6	254.4	258.6	264.0	229.7	133.3	39.8	0.0
52.5°	101.8	106.9	131.6	153.8	179.4	204.9	212.9	140.8	52.0	0.8	0.0
55°	12.6	12.6	17.6	30.2	49.9	80.5	90.5	45.3	3.8	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	3.4	9.2	6.3	1.7	0.4	0.4	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319891

CATALOG NUMBER: LDSQA3D05R709840DE010 3LSQCA30R 1MB

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	110.2	110.2	110.2	110.2	110.2	110.2	110.2	110.2
2.5°	144.2	139.1	132.0	111.1	93.0	77.1	67.9	63.3
5°	184.4	172.3	155.9	110.6	75.4	50.3	37.7	33.1
7.5°	223.0	209.1	181.5	109.0	57.8	29.3	16.3	13.0
10°	239.7	229.7	204.9	106.5	41.9	13.8	13.8	14.2
12.5°	246.4	238.9	218.8	102.7	27.7	13.4	14.2	13.4
15°	251.0	243.9	225.5	98.5	15.9	13.8	11.3	10.1
17.5°	253.6	245.2	227.6	90.5	10.5	11.7	7.1	5.9
20°	261.5	248.1	229.3	81.3	10.1	8.0	3.8	2.9
22.5°	274.9	254.0	229.7	70.0	8.0	4.6	1.3	0.0
25°	287.1	261.9	230.9	55.3	2.5	1.3	0.0	0.0
27.5°	293.0	264.5	230.5	39.0	0.0	0.0	0.0	0.0
30°	285.8	258.2	226.7	24.3	0.0	0.0	0.0	0.0
32.5°	269.1	253.6	215.0	10.5	0.0	0.0	0.0	0.0
35°	263.6	243.5	188.2	1.3	0.0	0.0	0.0	0.0
37.5°	251.5	214.6	138.3	0.0	0.0	0.0	0.0	0.0
40°	216.3	155.1	65.8	0.0	0.0	0.0	0.0	0.0
42.5°	142.9	66.2	3.8	0.0	0.0	0.0	0.0	0.0
45°	50.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	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	0.0	0.0	0.0	0.0	0.0
60°	0.4	0.4	0.4	0.4	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
65°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
77.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)