

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: P1316154

Luminaire Tested: LDSQA3D02R559740DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

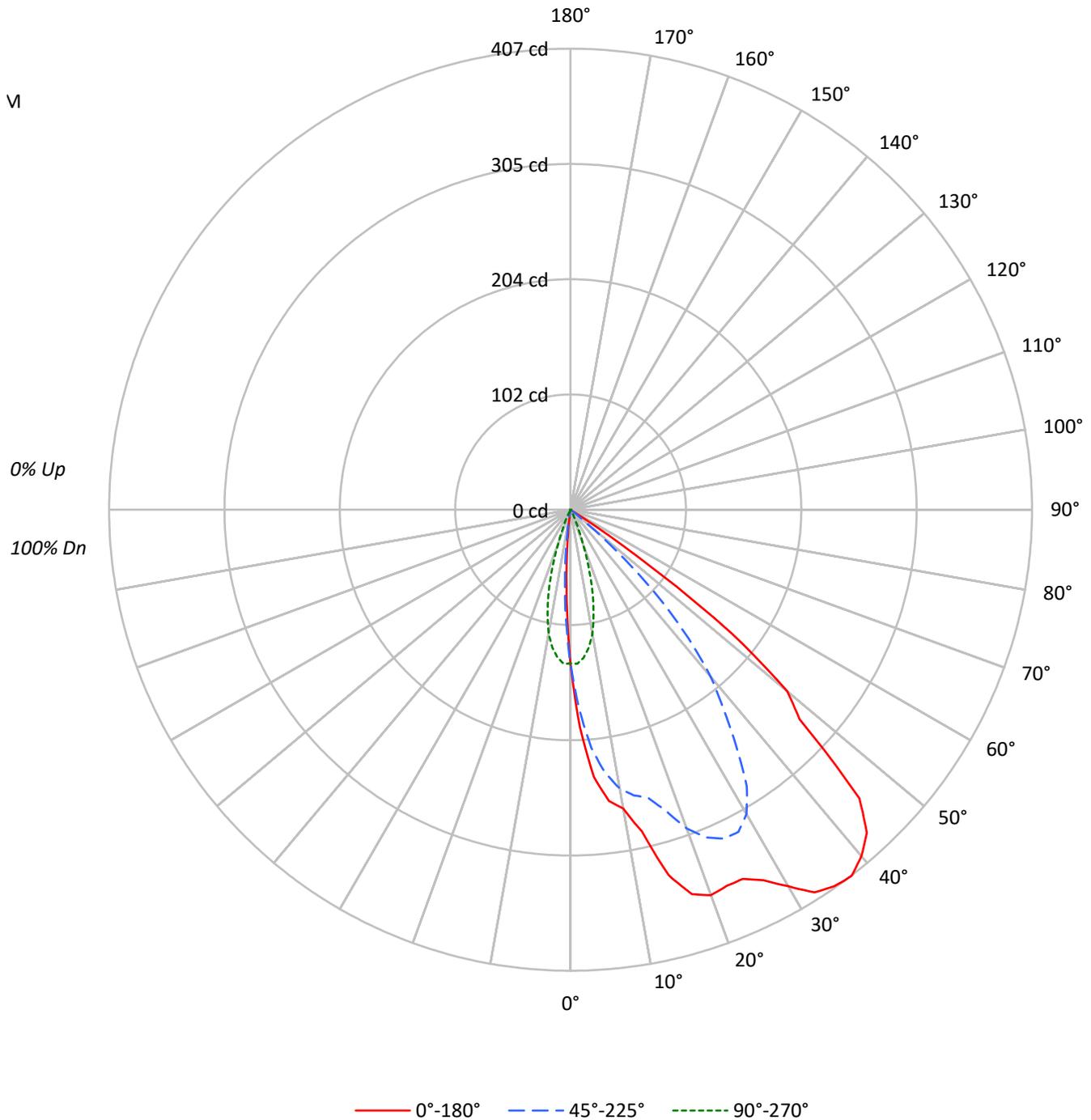
Test Method: LM-79-2019  
Report Number: P1316154  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-54)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R559740DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 251.0 lumens  
Efficiency: N/A  
Efficacy: 69.7 lumens/watt  
Spacing Criteria (0/90/45): 1.95 / 0.53 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
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

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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	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	105	99	95	90	103	98	93	89	94	91	87	91	88	86	88	86	84	82				
3	98	91	84	80	96	89	83	79	86	82	78	84	80	76	81	78	75	73				
4	92	83	76	71	90	81	75	70	79	74	69	77	72	68	75	71	68	66				
5	86	75	68	63	84	74	68	63	72	67	62	71	65	61	69	64	61	59				
6	80	69	62	56	78	68	61	56	66	60	56	65	60	55	64	59	55	53				
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48				
8	70	58	51	46	68	58	51	46	56	50	46	55	50	46	54	49	45	44				
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40				
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36				

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

	0°	45°	90°	135°	180°
0°	23353	23353	23353	23353	23353
5°	40938	36495	22665	9422	5428
10°	46868	43685	19394	1032	367
15°	59552	46892	13283	214	125
20°	66364	54854	5828	0	0
25°	68315	60866	1653	0	0
30°	76325	61688	239	0	0
35°	85296	53549	0	0	0
40°	89726	43121	0	0	0
45°	87730	27230	0	0	0
50°	66795	5573	0	0	0
55°	21889	0	0	0	0
60°	0	0	0	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	496	198	0
85°	0	395	395	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 87730 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.4	4.9
10°-20°	36.3	14.5
20°-30°	59.1	23.5
30°-40°	70.2	28.0
40°-50°	57.4	22.9
50°-60°	15.2	6.1
60°-70°	0.1	0.0
70°-80°	0.1	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°	107.8	42.9
0°-40°	178.0	70.9
0°-60°	250.6	99.8
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	136	136	136	136	136	
5°	237	211	131	54	31	23
15°	334	263	74	1	1	93
25°	360	320	9	0	0	169
35°	406	255	0	0	0	252
45°	360	112	0	0	0	259
55°	73	0	0	0	0	82
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°	67.5°
0°	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6	135.6
2.5°	192.5	191.1	191.3	190.6	191.3	188.2	184.9	181.9	179.5	176.2	156.2
5°	236.8	234.5	233.8	232.8	231.9	228.1	225.0	221.3	216.8	211.1	174.3
7.5°	259.2	257.3	256.4	256.9	254.7	253.3	249.3	245.1	240.4	234.2	188.0
10°	268.0	266.1	265.8	265.6	265.4	264.4	262.5	258.8	254.5	249.8	195.8
12.5°	290.8	286.6	283.8	280.5	276.4	271.3	267.0	263.7	262.1	258.3	199.3
15°	334.0	330.0	326.9	322.7	315.1	304.0	293.9	280.9	269.6	263.0	197.9
17.5°	355.7	353.8	351.2	348.4	343.2	335.2	324.8	311.1	296.7	278.1	191.1
20°	362.1	361.1	359.2	358.1	354.5	348.9	341.8	331.2	317.7	299.3	180.4
22.5°	359.5	360.2	361.1	364.2	364.7	360.7	354.1	343.9	330.2	313.2	164.2
25°	359.5	359.0	359.0	365.4	369.4	367.5	362.8	353.6	339.7	320.3	144.1
27.5°	368.7	365.8	359.9	366.6	373.2	372.5	368.2	357.4	341.8	320.6	119.6
30°	383.8	377.6	368.0	374.1	380.2	377.6	370.8	356.9	337.1	310.2	89.6
32.5°	400.5	397.7	392.7	396.7	395.8	385.4	373.2	353.8	327.4	289.4	60.4
35°	405.7	406.2	402.9	402.2	396.7	386.1	373.2	345.1	307.1	254.7	35.9
37.5°	407.4	407.6	402.4	395.8	387.8	375.3	359.7	327.2	269.6	221.3	19.1
40°	399.1	398.9	390.4	382.4	373.4	361.1	338.5	289.4	234.0	191.8	6.8
42.5°	386.8	383.8	375.8	365.8	355.0	339.7	304.3	244.4	203.3	153.6	0.5
45°	360.2	357.4	351.0	340.4	328.3	306.6	250.7	209.9	165.4	111.8	0.0
47.5°	273.9	272.4	279.0	280.5	280.2	255.5	209.2	171.2	121.5	65.1	0.0
50°	249.3	247.4	240.8	232.3	217.2	196.5	167.7	126.9	71.2	20.8	0.0
52.5°	179.0	185.2	186.6	180.2	166.1	145.5	115.6	73.1	24.8	0.0	0.0
55°	72.9	69.1	71.9	75.5	78.3	71.9	53.3	25.9	0.2	0.0	0.0
57.5°	0.0	0.2	1.4	3.3	5.4	6.8	7.3	0.5	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	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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°	135.6	135.6	135.6	135.6	135.6
2.5°	136.1	115.1	94.8	83.7	78.3
5°	131.1	88.0	54.5	37.7	31.4
7.5°	122.9	60.4	21.7	9.0	6.4
10°	110.9	34.7	5.9	2.4	2.1
12.5°	93.6	15.8	2.1	1.7	1.7
15°	74.5	5.4	1.2	0.9	0.7
17.5°	52.4	1.4	0.5	0.0	0.0
20°	31.8	0.2	0.0	0.0	0.0
22.5°	17.7	0.0	0.0	0.0	0.0
25°	8.7	0.0	0.0	0.0	0.0
27.5°	3.8	0.0	0.0	0.0	0.0
30°	1.2	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.0	0.0	0.0
77.5°	0.5	0.2	0.2	0.0	0.0
80°	0.5	0.2	0.2	0.0	0.0
82.5°	0.5	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.2	0.0	0.0
87.5°	0.5	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)