

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: P1313261

Luminaire Tested: LDSQA3D02R709727DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R709727DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

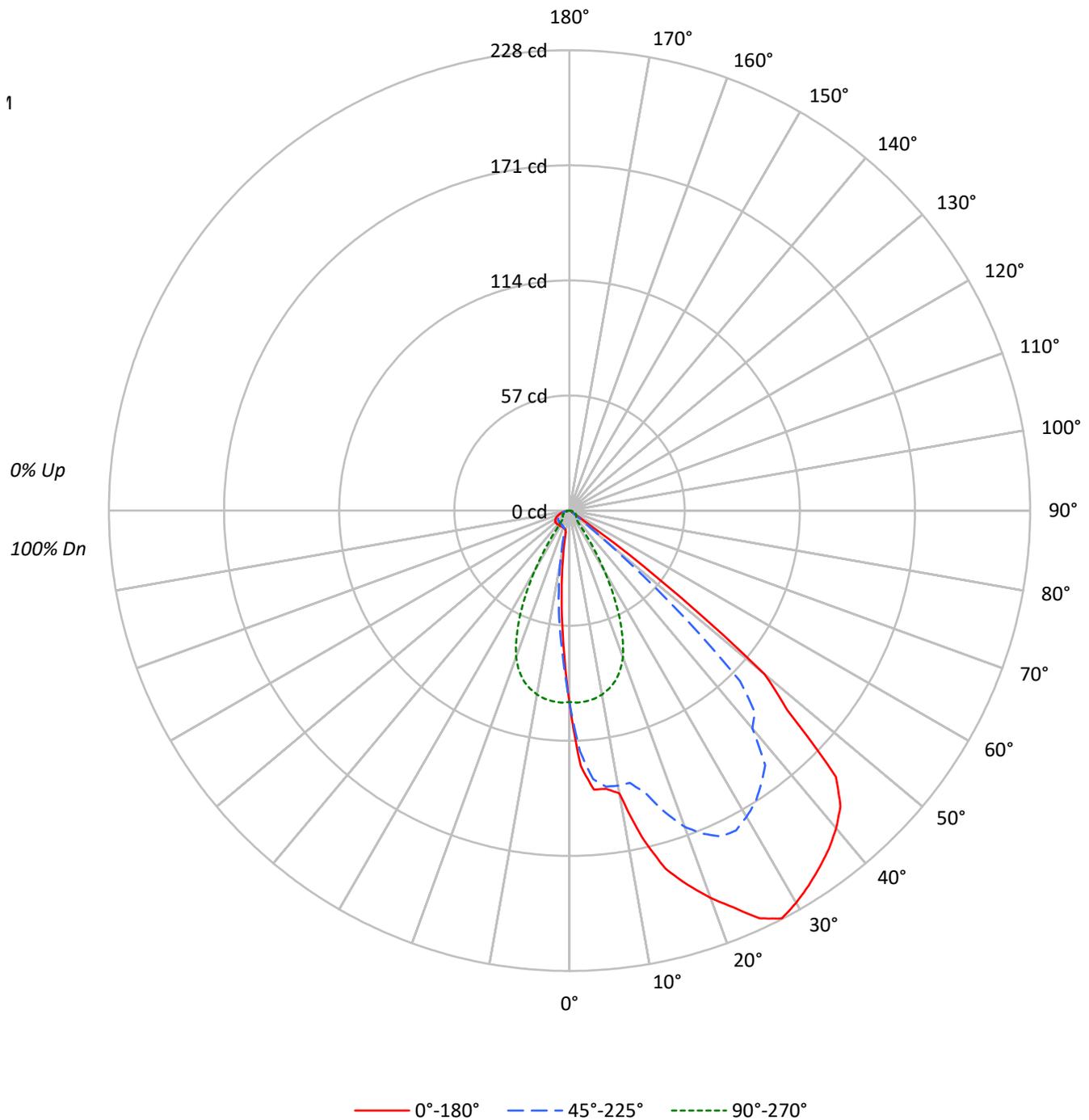
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 180.0 lumens
Efficiency: N/A
Efficacy: 50.0 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
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 (A_{in}): 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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	67	63	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	53	47	44	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16327	16327	16327	16327	16327
5°	23979	23062	16389	9785	7659
10°	24868	24186	16176	4687	1889
15°	32736	25782	15583	1676	1640
20°	37388	30552	14186	1613	1649
25°	42338	33844	11136	1558	1634
30°	44606	34841	6901	1551	1750
35°	45350	34775	2271	1598	1850
40°	46156	31632	1102	1709	2023
45°	45424	29057	1145	1802	2192
50°	33759	5359	1152	1983	2411
55°	2702	751	1231	2072	2582
60°	551	758	1206	2101	2687
65°	571	734	1182	2078	2730
70°	504	705	1108	1964	2669
75°	399	665	932	1930	2595
80°	397	595	992	1785	2479
85°	395	790	1186	1581	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 45960 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.6	4.8
10°-20°	24.3	13.5
20°-30°	40.7	22.6
30°-40°	49.0	27.2
40°-50°	38.8	21.6
50°-60°	12.4	6.9
60°-70°	3.5	1.9
70°-80°	2.1	1.1
80°-90°	0.6	0.4
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°	73.6	40.9
0°-40°	122.6	68.1
0°-60°	173.8	96.6
0°-90°	180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	180.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	139	133	95	57	44	13
15°	184	145	87	9	9	52
25°	223	178	59	8	9	102
35°	216	165	11	8	9	135
45°	186	119	5	7	9	134
55°	9	2	4	7	9	28
65°	1	2	3	5	7	1
75°	1	1	1	3	4	1
85°	0	0	1	1	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°	50°
0°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
2.5°	126.4	127.2	127.2	126.2	126.6	125.0	123.8	121.9	121.5	119.3	116.4
5°	138.7	138.3	138.3	137.5	137.9	137.3	136.6	136.2	135.0	133.4	131.7
7.5°	138.9	139.3	139.5	139.3	140.1	139.5	139.5	139.5	138.7	137.9	136.2
10°	142.2	141.5	140.9	139.5	138.7	138.1	138.1	138.3	138.7	138.3	137.3
12.5°	165.6	163.4	162.4	158.9	156.2	151.8	146.6	142.8	139.3	138.1	137.3
15°	183.6	183.2	181.2	177.9	174.6	169.3	163.4	157.5	151.1	144.6	139.9
17.5°	194.2	193.4	191.4	187.9	184.0	179.1	174.4	169.9	163.8	156.5	148.9
20°	204.0	202.2	199.5	195.5	191.6	186.9	181.8	177.5	172.4	166.7	157.9
22.5°	212.8	211.2	206.9	201.4	197.5	193.0	188.5	184.4	179.7	173.2	165.2
25°	222.8	219.2	212.2	205.1	200.4	196.7	193.4	190.2	185.2	178.1	168.7
27.5°	227.7	222.6	215.1	207.9	203.4	199.5	196.1	192.8	187.3	178.5	167.7
30°	224.3	221.4	216.1	210.6	206.9	203.2	199.1	194.2	185.5	175.2	165.2
32.5°	220.2	218.7	216.3	213.0	210.8	207.1	201.4	193.4	181.2	171.2	160.3
35°	215.7	215.1	214.3	212.8	211.4	207.9	200.8	189.1	176.9	165.4	155.0
37.5°	211.0	210.4	211.0	210.8	209.6	205.1	194.2	183.4	170.7	159.1	138.9
40°	205.3	204.9	205.9	206.9	205.5	199.5	187.9	174.8	163.6	140.7	133.8
42.5°	198.5	198.3	200.2	201.0	198.9	190.2	176.5	166.9	143.2	135.8	119.5
45°	186.5	186.9	187.7	188.7	187.5	177.9	165.4	147.9	137.5	119.3	68.0
47.5°	146.0	146.4	150.5	159.1	165.0	161.8	151.1	138.1	123.0	68.2	21.4
50°	126.0	125.6	125.8	127.9	132.6	137.0	133.8	126.6	73.3	20.0	2.7
52.5°	55.4	61.5	68.0	86.4	98.2	110.7	113.2	79.2	23.9	2.7	2.7
55°	9.0	9.4	11.8	17.4	31.2	47.2	57.2	26.6	2.5	2.5	2.5
57.5°	1.8	1.8	1.8	2.0	3.1	6.5	7.6	2.2	2.2	2.2	2.5
60°	1.6	1.6	1.6	1.6	1.8	1.8	1.8	2.0	2.0	2.2	2.2
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.8	1.8	2.0	2.0	2.2
65°	1.4	1.4	1.4	1.4	1.6	1.6	1.6	1.6	1.8	1.8	2.0
67.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.6	1.6	1.6	1.8
70°	1.0	1.0	1.0	1.0	1.2	1.2	1.2	1.2	1.4	1.4	1.4
72.5°	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.2	1.2	1.2
75°	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6
82.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	94.8	94.8	94.8	94.8	94.8	94.8	94.8	94.8
2.5°	114.6	111.7	107.8	95.2	83.5	72.9	67.6	67.0
5°	129.1	126.4	119.9	94.8	72.5	56.6	47.0	44.3
7.5°	134.6	132.4	126.6	94.0	62.1	40.6	29.8	25.7
10°	136.0	134.6	129.7	92.5	51.3	26.8	14.1	10.8
12.5°	136.6	135.6	130.9	90.3	40.4	13.9	9.6	9.6
15°	137.7	136.6	132.1	87.4	29.8	9.4	9.2	9.2
17.5°	142.2	138.9	133.8	83.1	19.6	9.0	9.0	9.0
20°	149.5	142.4	134.6	77.4	12.3	8.8	8.8	9.0
22.5°	155.6	146.0	134.4	68.8	9.0	8.4	8.6	8.8
25°	158.3	147.7	132.6	58.6	7.8	8.2	8.6	8.6
27.5°	157.9	148.3	130.9	47.0	7.4	8.0	8.4	8.8
30°	155.6	146.6	127.2	34.7	6.9	7.8	8.4	8.8
32.5°	151.8	140.3	119.9	22.5	6.7	7.8	8.4	8.8
35°	139.1	130.1	109.3	10.8	6.5	7.6	8.6	8.8
37.5°	131.7	119.3	83.3	5.3	6.3	7.6	8.6	8.8
40°	119.9	89.1	37.6	4.9	6.3	7.6	8.6	9.0
42.5°	75.4	36.6	6.1	4.7	6.1	7.6	8.6	9.0
45°	27.6	4.9	3.3	4.7	6.1	7.4	8.6	9.0
47.5°	2.9	2.9	3.1	4.5	5.9	7.4	8.6	9.0
50°	2.7	2.9	3.1	4.3	5.7	7.4	8.4	9.0
52.5°	2.7	2.9	3.1	4.3	5.5	7.1	8.4	9.0
55°	2.7	2.9	2.9	4.1	5.3	6.9	8.2	8.6
57.5°	2.5	2.7	2.9	3.9	5.1	6.5	8.0	8.4
60°	2.5	2.7	2.9	3.5	4.9	6.1	7.6	7.8
62.5°	2.2	2.5	2.7	3.3	4.5	5.7	6.9	7.4
65°	2.2	2.2	2.5	2.9	4.1	5.1	6.3	6.7
67.5°	1.8	2.0	2.0	2.5	3.5	4.5	5.7	6.1
70°	1.6	1.6	1.8	2.2	3.1	3.9	4.9	5.3
72.5°	1.4	1.4	1.4	1.8	2.7	3.5	4.3	4.7
75°	1.2	1.2	1.2	1.4	2.2	2.9	3.7	3.9
77.5°	1.0	1.0	1.0	1.2	1.8	2.5	2.9	3.3
80°	0.8	0.8	0.8	1.0	1.4	1.8	2.2	2.5
82.5°	0.6	0.6	0.6	0.8	1.0	1.2	1.6	1.6
85°	0.4	0.4	0.4	0.6	0.6	0.8	1.0	1.0
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)