

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: P1316146

Luminaire Tested: LDSQA3D02R509740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R509740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

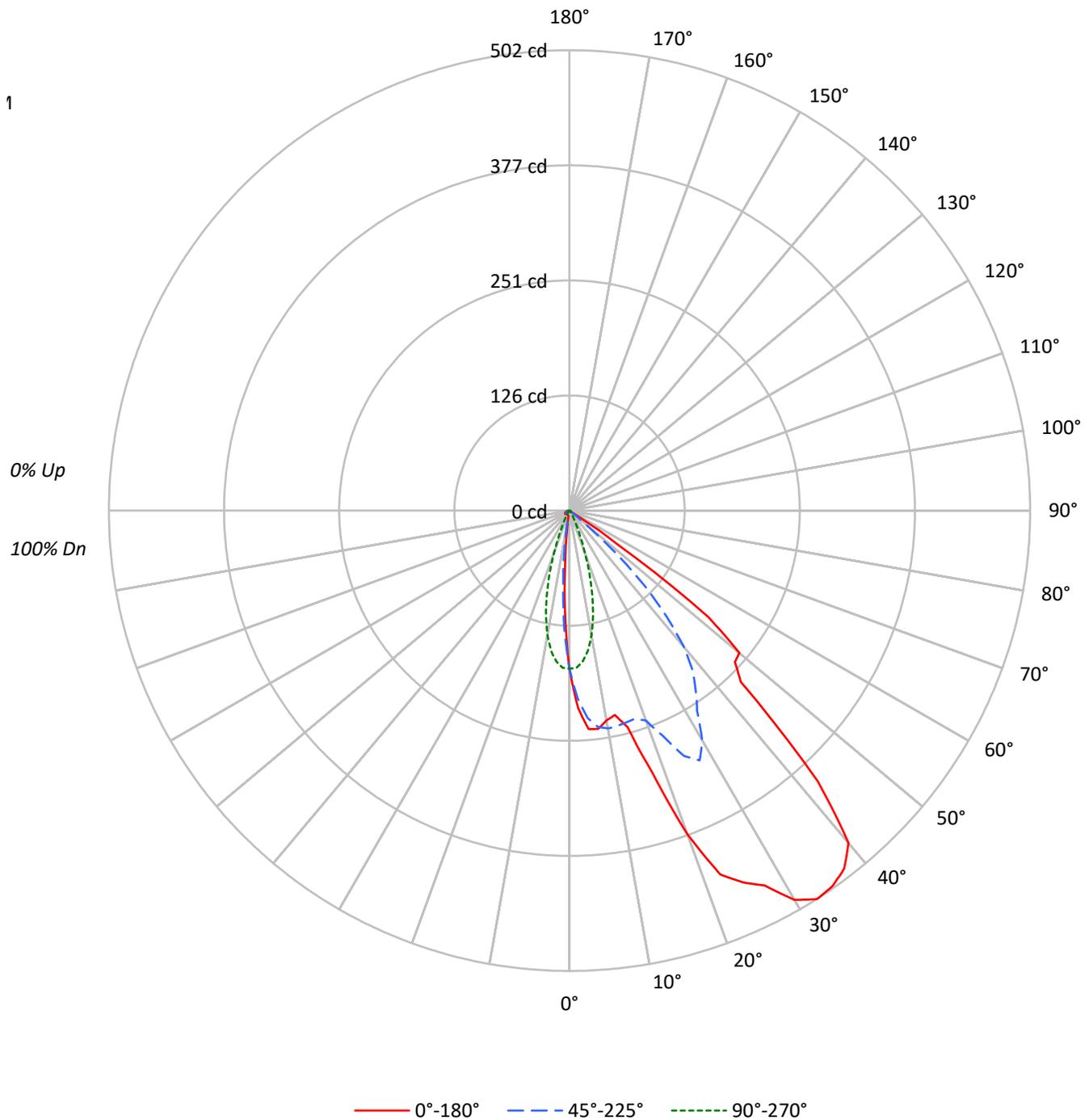
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 268.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	29674	29674	29674	29674	29674
5°	41370	39261	28525	13709	8903
10°	40624	42181	24098	2886	1242
15°	43558	42631	17045	1016	963
20°	68783	44646	8999	861	916
25°	84999	56058	3592	798	893
30°	97444	57492	1452	795	935
35°	105059	50459	652	841	1051
40°	106340	43458	472	944	1169
45°	64275	28180	463	1023	1315
50°	64759	4876	509	1206	1527
55°	19127	270	570	1351	1711
60°	310	310	586	1447	1860
65°	285	285	571	1549	2038
70°	352	352	604	1662	2266
75°	333	333	599	1730	2329
80°	198	496	694	1686	2579
85°	395	988	988	1778	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 73409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.9	5.2
10°-20°	34.6	12.9
20°-30°	64.8	24.2
30°-40°	77.5	28.9
40°-50°	55.5	20.7
50°-60°	17.1	6.4
60°-70°	2.2	0.8
70°-80°	1.6	0.6
80°-90°	0.7	0.2
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°	113.3	42.3
0°-40°	190.8	71.2
0°-60°	263.5	98.3
0°-90°	268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	268.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	172	172	172	172	172	
5°	239	227	165	79	52	22
15°	244	239	96	6	5	78
25°	447	295	19	4	5	206
35°	500	240	3	4	5	310
45°	264	116	2	4	5	242
55°	64	1	2	4	6	82
65°	1	1	1	4	5	1
75°	0	0	1	3	4	0
85°	0	0	0	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°	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3
2.5°	215.5	216.0	216.7	214.8	213.6	212.7	211.0	210.5	206.5	204.9	203.2
5°	239.3	238.9	239.3	238.6	238.2	236.7	235.3	233.0	230.4	227.1	223.3
7.5°	240.0	239.6	240.5	240.5	241.5	241.5	241.5	241.7	240.3	237.9	234.6
10°	232.3	232.3	233.2	232.7	234.4	235.1	236.7	239.6	241.0	241.2	240.3
12.5°	228.2	228.2	228.5	227.5	228.0	228.7	230.6	233.9	237.2	240.5	242.4
15°	244.3	244.8	241.5	236.7	233.2	229.4	228.2	230.4	233.9	239.1	243.3
17.5°	298.8	299.5	296.0	284.7	273.8	258.2	244.3	237.4	233.7	237.9	243.6
20°	375.3	372.7	366.6	354.5	338.7	314.6	292.9	271.0	250.0	243.6	245.5
22.5°	429.3	428.4	423.4	410.0	396.3	373.9	346.3	315.6	285.1	265.8	255.6
25°	447.3	446.6	442.1	434.1	426.5	409.5	384.7	353.8	321.9	295.0	269.5
27.5°	460.7	459.8	452.7	443.7	435.9	418.7	396.1	372.7	343.4	307.1	267.9
30°	490.0	487.4	477.5	461.4	446.6	422.7	397.7	368.7	329.0	289.1	250.9
32.5°	502.3	500.9	492.4	479.4	463.1	431.9	393.9	345.3	293.1	258.7	230.8
35°	499.7	497.5	488.8	473.9	454.1	424.1	373.4	306.6	264.1	240.0	208.6
37.5°	491.9	488.8	478.4	461.0	436.9	397.7	331.4	275.2	247.8	220.7	178.4
40°	473.0	468.0	456.0	437.8	413.8	362.3	293.1	256.3	230.8	193.3	144.7
42.5°	400.8	398.2	404.1	401.0	379.8	319.1	266.0	239.1	203.9	156.3	104.8
45°	263.9	268.4	279.0	297.2	301.4	274.5	243.8	210.8	167.8	115.7	60.4
47.5°	244.3	243.3	245.9	249.5	250.2	238.9	211.0	174.2	124.6	66.1	16.8
50°	241.7	240.3	238.2	233.9	224.9	203.0	171.4	127.0	72.0	18.2	1.2
52.5°	190.9	189.5	189.5	183.4	171.8	150.6	118.3	69.9	20.1	1.2	0.9
55°	63.7	68.0	67.3	67.0	72.2	66.6	51.0	17.9	1.7	0.9	0.9
57.5°	1.2	1.2	1.2	2.1	3.3	4.7	2.8	1.4	0.9	0.9	0.9
60°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
62.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
65°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.9
67.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
77.5°	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5	0.5
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	172.3	172.3	172.3	172.3	172.3	172.3	172.3	172.3
2.5°	199.4	196.1	189.8	171.6	151.5	128.6	113.1	111.2
5°	217.4	212.4	202.0	165.0	119.2	79.3	59.0	51.5
7.5°	229.2	222.6	209.8	154.1	86.9	41.8	22.4	17.9
10°	236.3	230.1	213.8	137.8	55.2	16.5	7.6	7.1
12.5°	240.0	234.1	215.3	118.3	31.2	7.6	5.9	5.9
15°	242.6	236.3	213.1	95.6	15.6	5.7	5.4	5.4
17.5°	243.8	236.0	207.0	72.0	8.3	5.2	5.2	5.2
20°	244.5	233.4	195.7	49.1	5.7	4.7	5.0	5.0
22.5°	245.2	227.1	180.8	31.2	4.5	4.5	4.7	4.7
25°	243.8	216.0	159.8	18.9	4.0	4.2	4.5	4.7
27.5°	233.7	199.2	134.3	11.6	3.5	4.0	4.5	4.7
30°	216.2	174.7	104.8	7.3	3.3	4.0	4.5	4.7
32.5°	193.5	146.6	74.8	4.5	3.3	4.0	4.5	4.7
35°	163.1	112.1	48.6	3.1	3.3	4.0	4.7	5.0
37.5°	128.9	78.4	26.2	2.4	3.3	4.0	4.7	5.0
40°	92.8	47.0	9.4	2.1	3.1	4.2	5.0	5.2
42.5°	54.3	17.5	1.7	1.9	3.1	4.2	5.0	5.2
45°	15.6	1.9	0.9	1.9	3.1	4.2	5.2	5.4
47.5°	1.2	0.7	0.9	1.9	3.1	4.2	5.2	5.7
50°	0.7	0.7	0.7	1.9	3.1	4.5	5.4	5.7
52.5°	0.9	0.9	0.9	1.9	3.1	4.5	5.4	5.7
55°	0.9	0.9	0.9	1.9	3.1	4.5	5.4	5.7
57.5°	0.9	0.9	0.9	1.9	3.1	4.2	5.4	5.7
60°	0.9	0.9	0.9	1.7	2.8	4.2	5.2	5.4
62.5°	0.9	0.9	0.9	1.7	2.8	4.0	5.2	5.2
65°	0.9	0.9	0.9	1.4	2.6	3.8	4.7	5.0
67.5°	0.9	0.9	0.9	1.4	2.4	3.5	4.5	4.7
70°	0.7	0.9	0.9	1.2	2.1	3.3	4.2	4.5
72.5°	0.7	0.7	0.9	1.2	1.9	2.8	3.8	4.0
75°	0.7	0.7	0.7	0.9	1.7	2.6	3.3	3.5
77.5°	0.7	0.7	0.7	0.9	1.4	2.1	3.1	3.1
80°	0.5	0.7	0.7	0.7	1.2	1.7	2.4	2.6
82.5°	0.5	0.5	0.5	0.7	0.9	1.4	1.9	1.9
85°	0.5	0.5	0.5	0.5	0.7	0.9	1.2	1.2
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)