

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: P1307025

Luminaire Tested: LDSQA3D09R459024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R459024DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

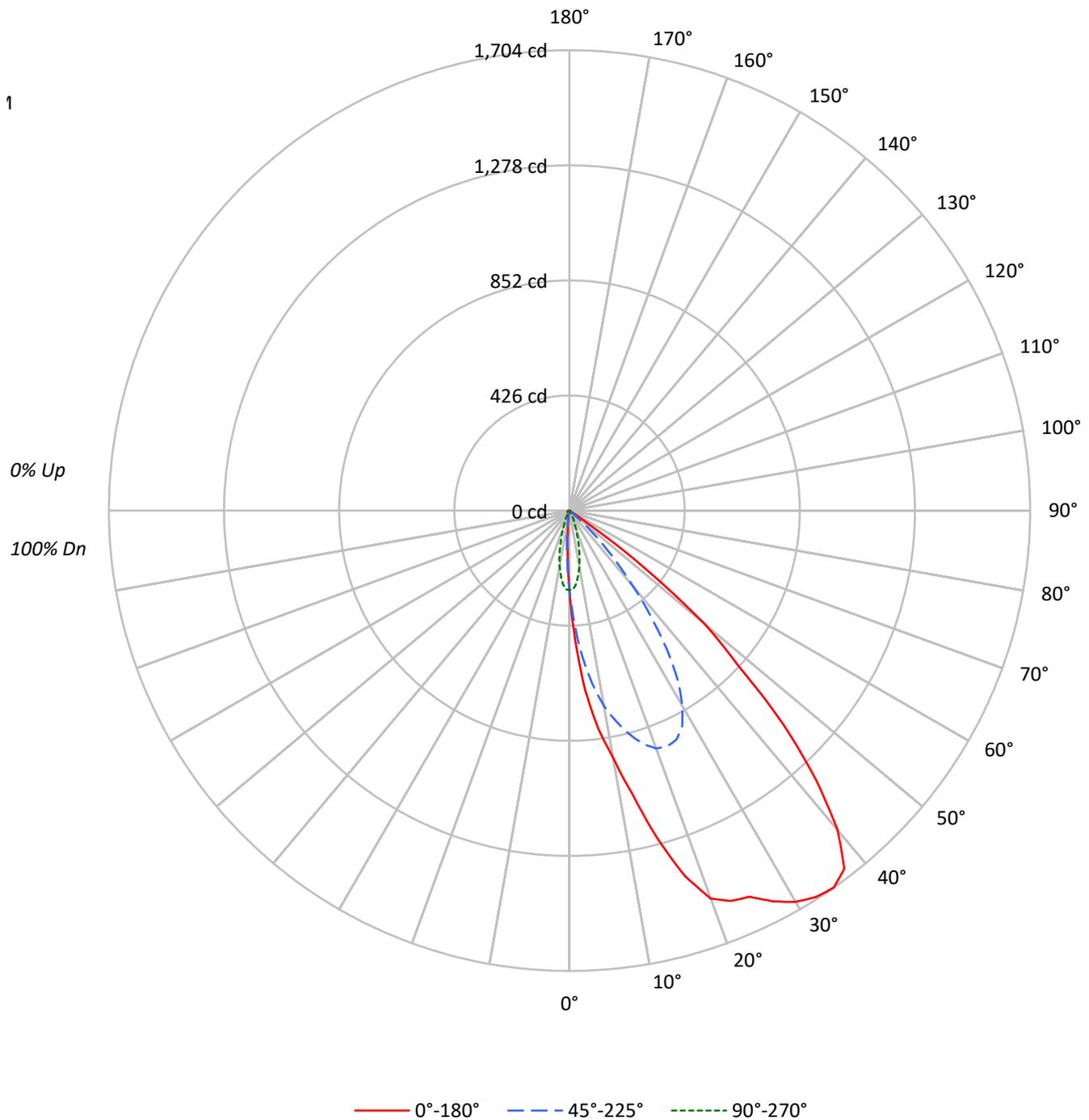
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 772.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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				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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82				82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74				74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60				60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54				54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49				49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45				45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41				41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37				37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	50599	50599	50599	50599	50599
5°	115294	93528	47317	18982	12949
10°	162480	128484	36585	4180	1924
15°	223889	152873	23375	1373	1159
20°	279972	171692	12188	953	953
25°	299596	177770	5644	741	855
30°	332543	166013	2565	776	895
35°	358215	132349	820	820	1093
40°	346629	82015	427	1012	1304
45°	272202	38677	463	1267	1583
50°	174878	4501	697	1554	2063
55°	26573	390	781	1952	2522
60°	448	448	896	2239	2652
65°	530	530	1060	2364	3138
70°	655	655	1309	2618	3575
75°	399	865	1730	2994	3859
80°	595	1289	1884	3174	4463
85°	0	1186	2569	3754	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 272202 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.1	4.2
10°-20°	116.2	15.1
20°-30°	204.2	26.5
30°-40°	231.9	30.0
40°-50°	150.1	19.5
50°-60°	29.5	3.8
60°-70°	3.6	0.5
70°-80°	3.0	0.4
80°-90°	1.3	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°	352.6	45.7
0°-40°	584.5	75.7
0°-60°	764.1	99.0
0°-90°	772.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	772.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	294	294	294	294	294	
5°	667	541	274	110	75	71
15°	1256	857	131	8	6	362
25°	1577	936	30	4	4	739
35°	1704	630	4	4	5	1047
45°	1118	159	2	5	6	842
55°	88	1	3	6	8	169
65°	1	1	3	6	8	1
75°	1	1	3	4	6	1
85°	0	1	1	2	2	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°	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8
2.5°	477.1	475.8	477.8	464.9	464.2	454.5	451.9	441.0	426.1	419.0	402.2
5°	666.9	660.5	660.5	645.0	639.8	628.8	610.1	586.9	567.5	541.0	512.6
7.5°	813.5	812.2	812.2	798.6	785.7	770.2	745.1	718.6	687.6	646.9	605.6
10°	929.1	931.0	925.2	912.9	894.2	877.4	847.7	815.4	777.3	734.7	679.8
12.5°	1075.0	1060.8	1056.2	1028.5	1004.6	972.3	936.8	900.0	852.9	799.3	737.3
15°	1255.7	1237.7	1219.6	1182.8	1142.8	1093.1	1037.5	983.3	922.6	857.4	779.9
17.5°	1417.2	1417.2	1393.3	1335.2	1283.5	1209.9	1135.0	1062.7	991.0	905.2	808.3
20°	1527.6	1521.7	1503.7	1461.1	1402.3	1319.0	1221.5	1120.2	1033.7	936.8	824.5
22.5°	1563.7	1562.4	1563.1	1537.9	1490.8	1404.2	1284.8	1165.4	1056.9	944.6	816.7
25°	1576.6	1579.2	1585.7	1576.0	1540.5	1454.0	1323.5	1186.7	1064.0	935.5	787.0
27.5°	1630.2	1625.0	1632.2	1625.7	1585.7	1482.4	1331.3	1181.5	1048.5	902.6	734.1
30°	1672.2	1670.9	1683.2	1677.3	1625.0	1500.4	1324.2	1162.1	1010.4	834.8	650.8
32.5°	1696.1	1696.7	1699.9	1676.1	1598.6	1461.1	1289.3	1122.7	938.7	746.3	542.3
35°	1703.8	1699.9	1681.9	1623.1	1517.2	1370.0	1203.5	1029.1	841.3	629.5	428.7
37.5°	1670.2	1650.2	1603.7	1515.9	1393.3	1255.7	1093.7	911.0	707.6	497.1	319.6
40°	1541.8	1515.3	1456.5	1366.8	1252.5	1119.5	953.6	762.5	548.8	364.8	224.7
42.5°	1349.4	1335.8	1274.5	1196.4	1099.5	965.2	794.1	600.4	406.1	251.8	143.3
45°	1117.6	1100.2	1061.4	992.3	916.1	775.4	615.9	430.0	277.0	158.8	71.0
47.5°	838.0	839.3	812.8	760.6	685.7	568.2	421.6	288.6	173.7	82.0	16.1
50°	652.7	643.7	606.2	552.7	465.5	378.3	272.5	182.1	91.7	16.8	1.3
52.5°	361.6	367.4	347.3	329.9	284.7	226.0	160.8	92.3	19.4	1.9	1.3
55°	88.5	93.6	89.7	91.7	94.9	84.6	65.2	18.1	1.9	1.3	1.3
57.5°	1.9	1.9	1.9	1.9	3.2	4.5	4.5	1.3	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3	1.3
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.3	1.3
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	293.8	293.8	293.8	293.8	293.8	293.8	293.8	293.8
2.5°	393.8	381.6	359.0	291.8	234.4	189.2	162.1	159.5
5°	487.5	454.5	406.7	273.7	173.0	109.8	79.4	74.9
7.5°	561.7	515.2	441.6	244.0	118.2	56.2	31.0	25.8
10°	623.0	557.2	459.7	209.2	74.2	23.9	12.9	11.0
12.5°	665.0	585.6	462.9	170.4	42.6	11.6	8.4	7.7
15°	692.1	594.6	447.4	131.1	23.9	7.7	7.1	6.5
17.5°	703.1	586.9	417.7	94.9	12.9	5.8	5.8	5.8
20°	697.9	561.7	373.8	66.5	8.4	5.2	5.2	5.2
22.5°	673.4	518.4	318.9	44.5	5.8	4.5	4.5	4.5
25°	625.0	459.7	260.8	29.7	3.9	3.9	4.5	4.5
27.5°	552.7	387.4	199.5	20.0	3.2	3.9	4.5	4.5
30°	461.6	306.7	143.3	12.9	3.2	3.9	3.9	4.5
32.5°	366.7	223.4	94.3	7.7	2.6	3.9	4.5	5.2
35°	266.0	152.4	60.0	3.9	3.2	3.9	4.5	5.2
37.5°	186.6	99.4	34.9	2.6	3.2	3.9	5.2	5.2
40°	121.4	55.5	12.9	1.9	3.2	4.5	5.2	5.8
42.5°	63.3	19.4	2.6	1.9	3.2	4.5	5.8	6.5
45°	16.1	2.6	0.6	1.9	3.9	5.2	6.5	6.5
47.5°	1.9	0.6	0.6	2.6	3.9	5.8	6.5	7.1
50°	0.6	1.3	1.3	2.6	3.9	5.8	7.1	7.7
52.5°	1.3	1.3	1.3	2.6	4.5	5.8	7.7	8.4
55°	1.3	1.3	1.3	2.6	4.5	6.5	7.7	8.4
57.5°	1.3	1.3	1.3	2.6	4.5	6.5	7.7	7.7
60°	1.3	1.3	1.3	2.6	4.5	6.5	7.7	7.7
62.5°	1.3	1.3	1.9	2.6	4.5	5.8	7.7	7.7
65°	1.3	1.9	1.9	2.6	4.5	5.8	7.1	7.7
67.5°	1.3	1.3	1.9	2.6	4.5	5.8	7.1	7.7
70°	1.3	1.3	1.9	2.6	3.9	5.2	6.5	7.1
72.5°	1.3	1.3	1.9	2.6	3.9	5.2	5.8	6.5
75°	1.3	1.3	1.9	2.6	3.2	4.5	5.8	5.8
77.5°	1.3	1.3	1.9	1.9	3.2	3.9	5.2	5.2
80°	1.3	1.3	1.9	1.9	2.6	3.2	3.9	4.5
82.5°	1.3	1.3	1.3	1.9	1.9	2.6	3.2	3.2
85°	1.3	1.3	1.3	1.3	1.3	1.9	1.9	1.9
87.5°	0.6	1.3	1.3	1.3	1.3	1.3	1.3	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)