

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: P1315490

Luminaire Tested: LDSQA3D09R459735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315490
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: LDSQA3D09R459735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

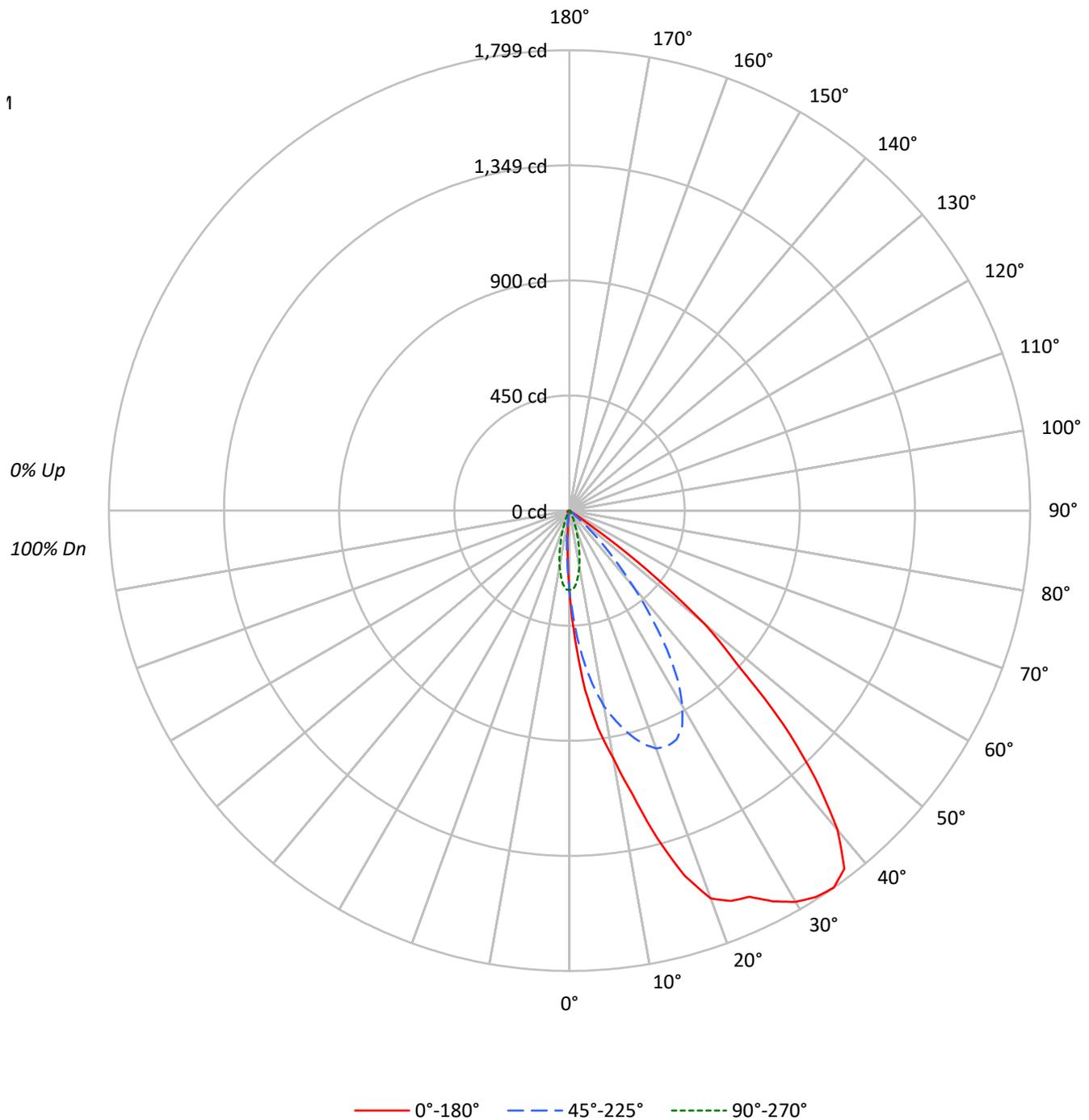
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 73.4 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				
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	53406	53406	53406	53406	53406
5°	121725	98749	49962	20037	13675
10°	171522	135654	38613	4407	2029
15°	236370	161395	24676	1462	1212
20°	295550	181259	12866	1008	1008
25°	316280	187670	5967	779	912
30°	351057	175260	2705	815	955
35°	378168	139729	862	862	1156
40°	365918	86578	450	1079	1371
45°	287352	40845	487	1340	1656
50°	184631	4742	723	1634	2197
55°	28044	420	811	2042	2672
60°	482	482	930	2342	2824
65°	571	571	1100	2486	3342
70°	705	705	1360	2769	3777
75°	466	932	1797	3194	4059
80°	694	1389	1984	3372	4761
85°	0	1383	2766	3952	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 287352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.9	4.2
10°-20°	122.7	15.1
20°-30°	215.6	26.5
30°-40°	244.8	30.0
40°-50°	158.5	19.4
50°-60°	31.1	3.8
60°-70°	3.8	0.5
70°-80°	3.1	0.4
80°-90°	1.4	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°	372.2	45.7
0°-40°	617.0	75.7
0°-60°	806.7	99.0
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	310	310	310	310	310	
5°	704	571	289	116	79	75
15°	1326	905	138	8	7	382
25°	1664	988	31	4	5	780
35°	1799	665	4	4	6	1106
45°	1180	168	2	6	7	889
55°	93	1	3	7	9	178
65°	1	1	3	6	8	1
75°	1	1	3	5	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°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	503.7	502.3	504.4	490.7	490.1	479.8	477.1	465.5	449.8	442.4	424.6
5°	704.1	697.3	697.3	680.9	675.5	663.9	644.1	619.6	599.1	571.2	541.2
7.5°	858.8	857.4	857.4	843.1	829.5	813.1	786.6	758.6	725.9	683.0	639.3
10°	980.8	982.9	976.7	963.8	944.0	926.3	894.9	860.8	820.6	775.7	717.7
12.5°	1134.8	1119.9	1115.1	1085.8	1060.6	1026.5	989.0	950.1	900.4	843.8	778.4
15°	1325.7	1306.6	1287.5	1248.7	1206.4	1153.9	1095.3	1038.1	974.0	905.2	823.4
17.5°	1496.1	1496.1	1470.9	1409.5	1355.0	1277.3	1198.2	1121.9	1046.2	955.6	853.4
20°	1612.6	1606.5	1587.4	1542.4	1480.4	1392.5	1289.6	1182.6	1091.2	989.0	870.4
22.5°	1650.8	1649.4	1650.1	1623.5	1573.8	1482.5	1356.4	1230.3	1115.8	997.2	862.2
25°	1664.4	1667.2	1674.0	1663.8	1626.3	1534.9	1397.3	1252.8	1123.3	987.6	830.9
27.5°	1721.0	1715.6	1723.1	1716.2	1674.0	1564.9	1405.4	1247.3	1106.9	952.9	775.0
30°	1765.3	1764.0	1776.9	1770.8	1715.6	1584.0	1397.9	1226.9	1066.7	881.3	687.0
32.5°	1790.5	1791.2	1794.6	1769.4	1687.6	1542.4	1361.1	1185.3	991.0	787.9	572.5
35°	1798.7	1794.6	1775.5	1713.5	1601.7	1446.3	1270.5	1086.5	888.1	664.6	452.6
37.5°	1763.3	1742.1	1693.1	1600.4	1470.9	1325.7	1154.6	961.7	747.0	524.8	337.4
40°	1627.6	1599.7	1537.7	1442.9	1322.3	1181.9	1006.7	805.0	579.4	385.1	237.2
42.5°	1424.5	1410.2	1345.5	1263.0	1160.7	1019.0	838.4	633.9	428.7	265.8	151.3
45°	1179.8	1161.4	1120.5	1047.6	967.2	818.6	650.2	453.9	292.4	167.7	75.0
47.5°	884.7	886.1	858.1	802.9	723.8	599.8	445.1	304.7	183.3	86.6	17.0
50°	689.1	679.5	640.0	583.4	491.4	399.4	287.6	192.2	96.8	17.7	1.4
52.5°	381.7	387.8	366.7	348.3	300.6	238.6	169.7	97.5	20.4	2.0	1.4
55°	93.4	98.8	94.7	96.8	100.2	89.3	68.8	19.1	2.0	1.4	1.4
57.5°	2.0	2.0	2.0	2.0	3.4	4.8	4.8	1.4	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
82.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	310.1	310.1	310.1	310.1	310.1	310.1	310.1	310.1
2.5°	415.8	402.8	379.0	308.1	247.4	199.7	171.1	168.4
5°	514.6	479.8	429.4	289.0	182.7	115.9	83.8	79.1
7.5°	593.0	543.9	466.2	257.6	124.7	59.3	32.7	27.3
10°	657.7	588.2	485.3	220.8	78.4	25.2	13.6	11.6
12.5°	702.0	618.2	488.7	179.9	45.0	12.3	8.9	8.2
15°	730.7	627.7	472.3	138.4	25.2	8.2	7.5	6.8
17.5°	742.3	619.6	441.0	100.2	13.6	6.1	6.1	6.1
20°	736.8	593.0	394.6	70.2	8.9	5.5	5.5	5.5
22.5°	710.9	547.3	336.7	47.0	6.1	4.8	4.8	4.8
25°	659.8	485.3	275.4	31.4	4.1	4.1	4.8	4.8
27.5°	583.4	409.0	210.6	21.1	3.4	4.1	4.8	4.8
30°	487.3	323.8	151.3	13.6	3.4	4.1	4.1	4.8
32.5°	387.1	235.8	99.5	8.2	2.7	4.1	4.8	5.5
35°	280.8	160.9	63.4	4.1	3.4	4.1	4.8	5.5
37.5°	197.0	105.0	36.8	2.7	3.4	4.1	5.5	5.5
40°	128.1	58.6	13.6	2.0	3.4	4.8	5.5	6.1
42.5°	66.8	20.4	2.7	2.0	3.4	4.8	6.1	6.8
45°	17.0	2.7	0.7	2.0	4.1	5.5	6.8	6.8
47.5°	2.0	0.7	0.7	2.7	4.1	6.1	6.8	7.5
50°	0.7	1.4	1.4	2.7	4.1	6.1	7.5	8.2
52.5°	1.4	1.4	1.4	2.7	4.8	6.1	8.2	8.9
55°	1.4	1.4	1.4	2.7	4.8	6.8	8.2	8.9
57.5°	1.4	1.4	1.4	2.7	4.8	6.8	8.2	8.2
60°	1.4	1.4	1.4	2.7	4.8	6.8	8.2	8.2
62.5°	1.4	1.4	2.0	2.7	4.8	6.1	8.2	8.2
65°	1.4	2.0	2.0	2.7	4.8	6.1	7.5	8.2
67.5°	1.4	1.4	2.0	2.7	4.8	6.1	7.5	8.2
70°	1.4	1.4	2.0	2.7	4.1	5.5	6.8	7.5
72.5°	1.4	1.4	2.0	2.7	4.1	5.5	6.1	6.8
75°	1.4	1.4	2.0	2.7	3.4	4.8	6.1	6.1
77.5°	1.4	1.4	2.0	2.0	3.4	4.1	5.5	5.5
80°	1.4	1.4	2.0	2.0	2.7	3.4	4.1	4.8
82.5°	1.4	1.4	1.4	2.0	2.0	2.7	3.4	3.4
85°	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0
87.5°	0.7	1.4	1.4	1.4	1.4	1.4	1.4	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)