

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: P1307997

Luminaire Tested: LDSQA3D09R459027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307997
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: LDSQA3D09R459027DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

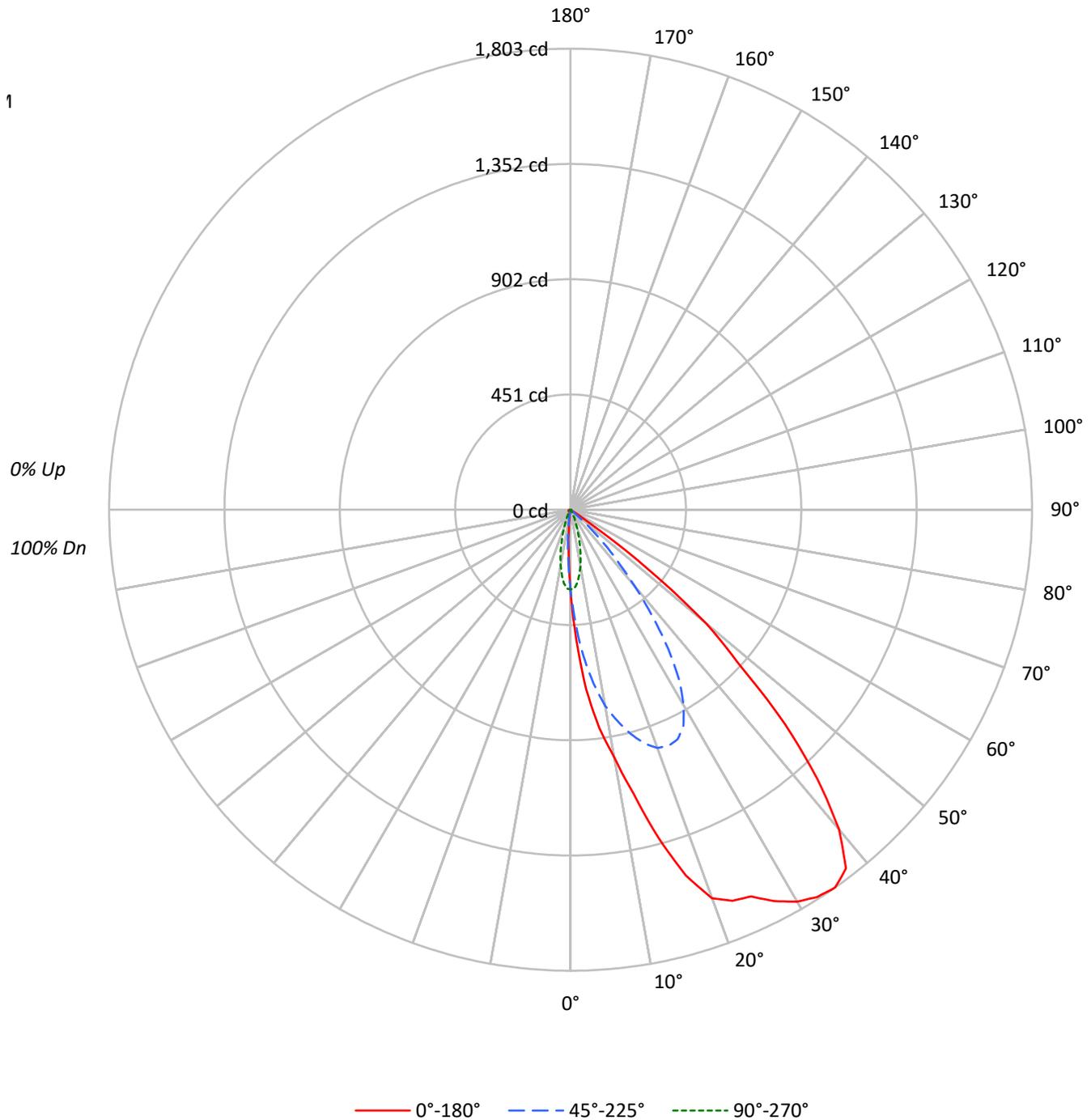
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 817.0 lumens
Efficiency: N/A
Efficacy: 73.6 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

TEST NUMBER: P1307997
CATALOG NUMBER: LDSQA3D09R459027DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1307997

CATALOG NUMBER: LDSQA3D09R459027DE010 3LSQCA30R 1MW

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	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°	53544	53544	53544	53544	53544
5°	122019	98991	50083	20089	13709
10°	171941	135986	38718	4424	2029
15°	236940	161788	24730	1462	1212
20°	296283	181699	12903	1008	1008
25°	317059	188126	5967	779	912
30°	351932	175698	2724	815	955
35°	379093	140065	862	862	1156
40°	366817	86781	450	1079	1371
45°	288058	40942	487	1340	1656
50°	185087	4769	723	1634	2197
55°	28104	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: 288058 cd/sqm



TEST NUMBER: P1307997

CATALOG NUMBER: LDSQA3D09R459027DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	4.2
10°-20°	123.0	15.1
20°-30°	216.1	26.5
30°-40°	245.4	30.0
40°-50°	158.9	19.4
50°-60°	31.2	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°	373.1	45.7
0°-40°	618.5	75.7
0°-60°	808.6	99.0
0°-90°	817.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	817.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	311	311	311	311	311	
5°	706	573	290	116	79	75
15°	1329	907	139	8	7	383
25°	1668	990	31	4	5	782
35°	1803	666	4	4	6	1108
45°	1183	168	2	6	7	891
55°	94	1	3	7	9	179
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	



TEST NUMBER: P1307997

CATALOG NUMBER: LDSQA3D09R459027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.9
2.5°	504.9	503.6	505.6	491.9	491.3	481.0	478.3	466.7	451.0	443.4	425.7
5°	705.8	699.0	699.0	682.6	677.1	665.5	645.7	621.1	600.6	572.6	542.5
7.5°	860.9	859.5	859.5	845.2	831.5	815.1	788.5	760.5	727.7	684.6	640.9
10°	983.2	985.3	979.1	966.1	946.3	928.6	897.1	863.0	822.6	777.6	719.5
12.5°	1137.6	1122.6	1117.8	1088.4	1063.2	1029.0	991.4	952.5	902.6	845.9	780.3
15°	1328.9	1309.8	1290.7	1251.7	1209.4	1156.8	1098.0	1040.6	976.4	907.4	825.4
17.5°	1499.8	1499.8	1474.5	1413.0	1358.3	1280.4	1201.2	1124.7	1048.8	957.9	855.4
20°	1616.6	1610.5	1591.3	1546.2	1484.0	1395.9	1292.7	1185.5	1093.9	991.4	872.5
22.5°	1654.9	1653.5	1654.2	1627.5	1577.7	1486.1	1359.7	1233.3	1118.5	999.6	864.3
25°	1668.5	1671.3	1678.1	1667.8	1630.3	1538.7	1400.7	1255.8	1126.0	990.0	832.9
27.5°	1725.2	1719.8	1727.3	1720.5	1678.1	1568.8	1408.9	1250.4	1109.6	955.2	776.9
30°	1769.7	1768.3	1781.3	1775.1	1719.8	1587.9	1401.4	1229.9	1069.3	883.5	688.7
32.5°	1794.9	1795.6	1799.0	1773.8	1691.8	1546.2	1364.5	1188.2	993.5	789.9	573.9
35°	1803.1	1799.0	1779.9	1717.7	1605.7	1449.9	1273.6	1089.1	890.3	666.2	453.7
37.5°	1767.6	1746.4	1697.2	1604.3	1474.5	1328.9	1157.4	964.1	748.9	526.1	338.2
40°	1631.6	1603.6	1541.4	1446.5	1325.5	1184.8	1009.2	806.9	580.8	386.0	237.8
42.5°	1428.0	1413.7	1348.8	1266.1	1163.6	1021.5	840.4	635.4	429.8	266.5	151.7
45°	1182.7	1164.3	1123.3	1050.2	969.6	820.6	651.8	455.1	293.1	168.1	75.2
47.5°	886.9	888.2	860.2	804.9	725.6	601.3	446.2	305.4	183.8	86.8	17.1
50°	690.8	681.2	641.6	584.9	492.6	400.4	288.3	192.7	97.0	17.8	1.4
52.5°	382.6	388.8	367.6	349.1	301.3	239.1	170.1	97.7	20.5	2.0	1.4
55°	93.6	99.1	95.0	97.0	100.4	89.5	69.0	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



TEST NUMBER: P1307997

CATALOG NUMBER: LDSQA3D09R459027DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	310.9	310.9	310.9	310.9	310.9	310.9	310.9	310.9
2.5°	416.8	403.8	379.9	308.8	248.0	200.2	171.5	168.8
5°	515.9	481.0	430.5	289.7	183.1	116.2	84.0	79.3
7.5°	594.4	545.2	467.4	258.3	125.0	59.4	32.8	27.3
10°	659.3	589.7	486.5	221.4	78.6	25.3	13.7	11.6
12.5°	703.8	619.7	489.9	180.4	45.1	12.3	8.9	8.2
15°	732.5	629.3	473.5	138.7	25.3	8.2	7.5	6.8
17.5°	744.1	621.1	442.1	100.4	13.7	6.1	6.1	6.1
20°	738.6	594.4	395.6	70.4	8.9	5.5	5.5	5.5
22.5°	712.6	548.7	337.5	47.1	6.1	4.8	4.8	4.8
25°	661.4	486.5	276.0	31.4	4.1	4.1	4.8	4.8
27.5°	584.9	410.0	211.1	21.2	3.4	4.1	4.8	4.8
30°	488.5	324.6	151.7	13.7	3.4	4.1	4.1	4.8
32.5°	388.1	236.4	99.8	8.2	2.7	4.1	4.8	5.5
35°	281.5	161.3	63.5	4.1	3.4	4.1	4.8	5.5
37.5°	197.5	105.2	36.9	2.7	3.4	4.1	5.5	5.5
40°	128.5	58.8	13.7	2.0	3.4	4.8	5.5	6.1
42.5°	67.0	20.5	2.7	2.0	3.4	4.8	6.1	6.8
45°	17.1	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)