

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: P1311185

Luminaire Tested: LDSQA3D05R409040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R409040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

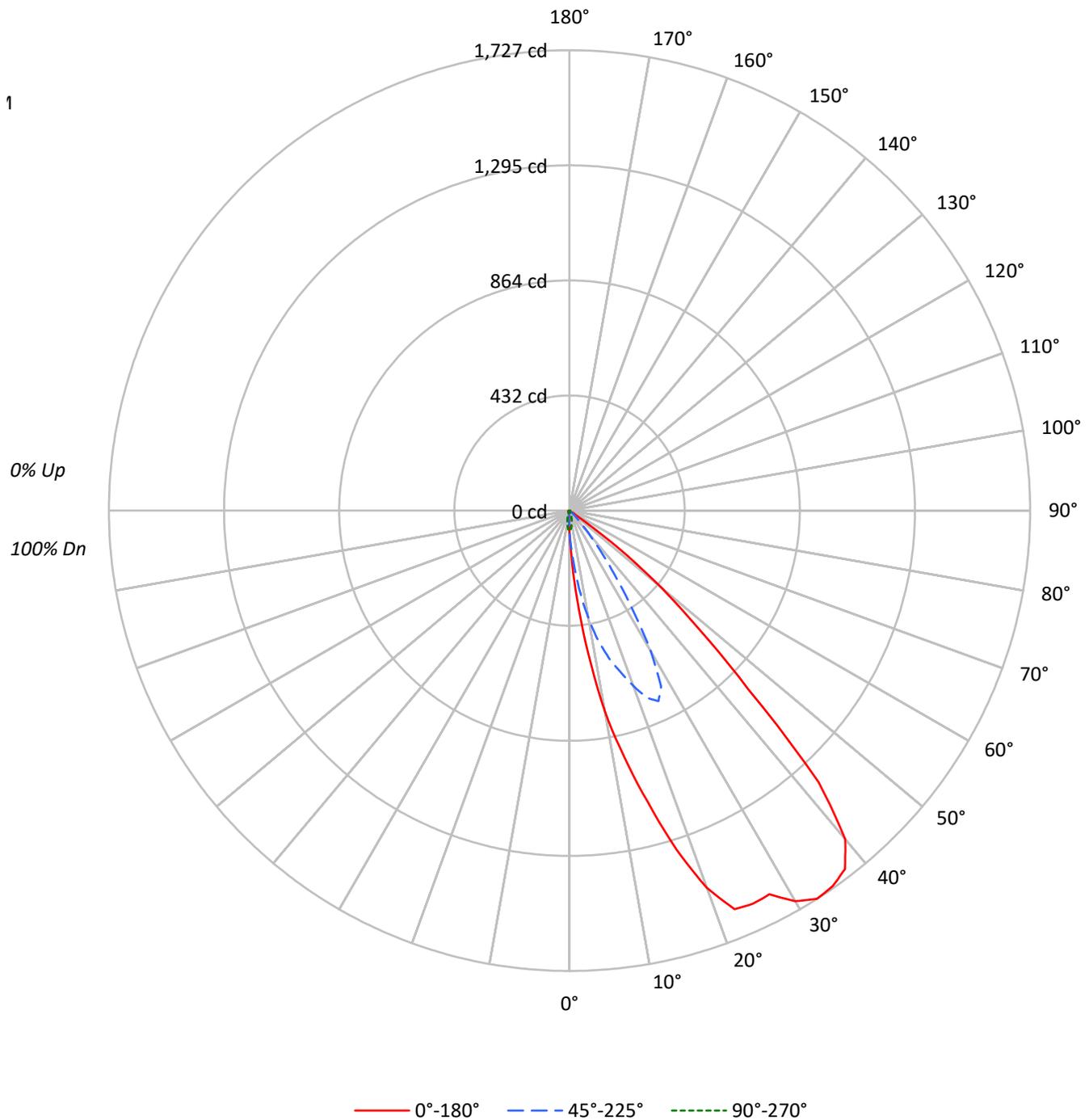
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 637.0 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.41 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	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	80	70	62	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	56	52	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12986	12986	12986	12986	12986
5°	58537	37325	11635	4460	3250
10°	134255	72120	8184	1609	1224
15°	201495	102325	5081	856	767
20°	275885	128275	2969	495	586
25°	309268	149874	1539	418	513
30°	336401	120990	636	318	537
35°	361537	61917	231	463	673
40°	361669	24685	112	495	854
45°	230919	8257	268	779	1169
50°	119872	1018	429	1018	1447
55°	10359	150	480	1291	1772
60°	379	172	551	1481	2032
65°	448	204	897	1549	2201
70°	252	252	1108	1611	2165
75°	333	333	1065	1797	2529
80°	496	496	1587	1587	2182
85°	0	988	3162	2174	2174

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 230919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.7	2.3
10°-20°	86.2	13.5
20°-30°	188.8	29.6
30°-40°	215.1	33.8
40°-50°	113.5	17.8
50°-60°	13.4	2.1
60°-70°	2.4	0.4
70°-80°	2.0	0.3
80°-90°	0.9	0.1
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°	289.7	45.5
0°-40°	504.8	79.3
0°-60°	631.7	99.2
0°-90°	637.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	637.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	339	216	67	26	19	46
15°	1130	574	28	5	4	333
25°	1628	789	8	2	3	750
35°	1720	294	1	2	3	1066
45°	948	34	1	3	5	764
55°	34	0	2	4	6	107
65°	1	0	2	4	5	1
75°	0	0	2	3	4	1
85°	0	0	2	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°	67.5°
0°	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4	75.4
2.5°	168.0	168.0	167.4	162.6	162.1	161.5	152.9	150.7	140.5	133.5	101.8
5°	338.6	331.1	330.6	322.0	307.4	288.0	275.7	255.7	236.3	215.9	125.4
7.5°	539.5	545.9	528.2	519.0	486.7	463.5	428.0	396.8	353.2	312.3	144.8
10°	767.7	756.4	738.7	720.9	685.9	644.4	591.7	536.2	473.2	412.4	155.6
12.5°	945.9	931.4	920.6	896.4	861.9	808.6	745.7	671.4	587.9	500.2	155.1
15°	1130.1	1115.5	1091.3	1069.8	1018.6	958.9	890.5	792.5	690.2	573.9	143.7
17.5°	1332.5	1313.6	1286.7	1253.9	1204.4	1138.1	1051.5	931.9	787.1	634.2	123.3
20°	1505.3	1494.0	1467.1	1428.3	1379.9	1315.3	1215.1	1082.7	906.1	699.9	98.0
22.5°	1618.4	1608.1	1589.8	1555.9	1519.3	1450.4	1358.9	1213.5	1005.7	759.7	74.3
25°	1627.5	1623.2	1618.4	1607.1	1585.0	1536.0	1446.6	1290.0	1067.6	788.7	54.9
27.5°	1622.7	1621.1	1620.0	1614.1	1599.5	1551.1	1459.6	1301.3	1059.5	743.5	40.4
30°	1691.6	1686.7	1684.1	1664.7	1626.4	1551.6	1432.1	1240.4	941.6	608.4	29.1
32.5°	1726.6	1725.5	1722.8	1704.0	1650.1	1552.7	1385.8	1093.5	746.7	439.3	19.9
35°	1719.6	1714.2	1704.5	1669.5	1594.7	1472.5	1236.1	873.3	538.9	294.5	12.9
37.5°	1695.9	1683.5	1664.7	1601.7	1502.1	1335.2	1002.5	642.8	366.6	190.6	7.5
40°	1608.7	1592.0	1562.4	1485.4	1354.6	1100.5	741.4	434.5	240.7	109.8	2.2
42.5°	1383.1	1361.6	1340.0	1253.9	1104.2	820.5	487.8	268.7	137.3	60.3	0.5
45°	948.1	921.2	891.6	829.1	709.0	496.9	290.2	151.3	71.1	33.9	0.5
47.5°	658.4	646.1	594.4	514.7	394.6	263.3	150.2	74.3	37.7	15.6	0.5
50°	447.4	433.4	373.1	296.1	210.0	126.0	68.9	37.1	16.7	3.8	0.5
52.5°	234.7	217.5	179.3	136.7	85.1	52.8	30.1	16.2	4.8	0.5	0.5
55°	34.5	31.8	25.8	21.0	18.8	14.5	8.6	3.8	0.5	0.5	1.1
57.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.1	0.5	0.5	0.5	1.1
60°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
65°	1.1	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1
67.5°	1.1	1.1	1.1	1.1	0.5	0.5	0.5	0.5	0.5	1.1	1.6
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.6
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.6
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	1.1
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):

	90°	112.5°	135°	157.5°	180°
0°	75.4	75.4	75.4	75.4	75.4
2.5°	74.3	54.9	42.5	36.6	36.1
5°	67.3	39.3	25.8	19.9	18.8
7.5°	57.1	27.5	15.1	10.8	10.2
10°	46.8	18.8	9.2	7.5	7.0
12.5°	37.1	12.4	6.5	5.9	5.4
15°	28.5	8.1	4.8	4.3	4.3
17.5°	21.5	5.4	3.8	3.8	3.8
20°	16.2	3.8	2.7	3.2	3.2
22.5°	11.3	2.7	2.2	2.7	2.7
25°	8.1	2.2	2.2	2.7	2.7
27.5°	5.4	1.6	1.6	2.2	2.7
30°	3.2	1.1	1.6	2.2	2.7
32.5°	1.6	1.1	1.6	2.7	2.7
35°	1.1	1.6	2.2	2.7	3.2
37.5°	0.5	1.6	2.2	3.2	3.2
40°	0.5	1.6	2.2	3.2	3.8
42.5°	1.1	2.2	2.7	3.8	4.3
45°	1.1	2.2	3.2	4.3	4.8
47.5°	1.1	2.2	3.8	4.8	4.8
50°	1.6	2.7	3.8	4.8	5.4
52.5°	1.6	2.7	3.8	5.4	5.9
55°	1.6	2.7	4.3	5.4	5.9
57.5°	1.6	3.2	4.3	5.4	5.9
60°	1.6	2.7	4.3	5.4	5.9
62.5°	2.2	2.7	3.8	5.4	5.4
65°	2.2	2.7	3.8	5.4	5.4
67.5°	2.2	2.7	3.8	4.8	4.8
70°	2.2	2.7	3.2	4.3	4.3
72.5°	2.2	2.7	3.2	3.8	4.3
75°	1.6	2.2	2.7	3.2	3.8
77.5°	1.6	2.2	2.2	3.2	3.2
80°	1.6	1.6	1.6	2.2	2.2
82.5°	1.6	1.6	1.1	1.6	1.6
85°	1.6	1.1	1.1	1.1	1.1
87.5°	1.1	1.1	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)