

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: P1316973

Luminaire Tested: LDSQA3D20R709740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316973
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

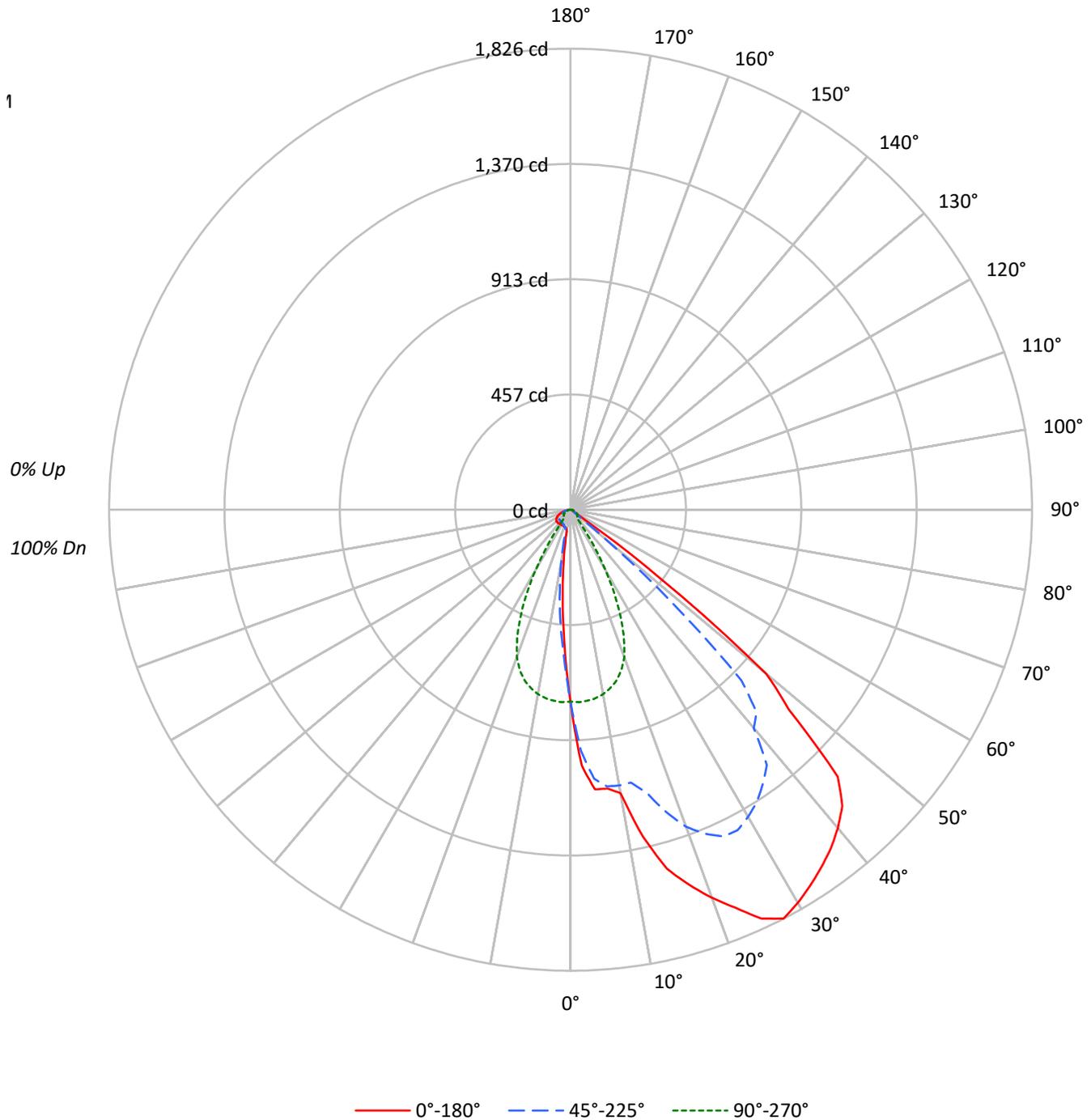
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1443.0 lumens
Efficiency: N/A
Efficacy: 50.1 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
Input Voltage (V): NR
Input Current (Ain): 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	100				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71				
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57				
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46				
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	130838	130838	130838	130838	130838
5°	192209	184844	131337	78401	61424
10°	199293	193854	129708	37512	15180
15°	262455	206683	124951	13426	13141
20°	299784	244874	113741	12903	13196
25°	339464	271320	89294	12447	13074
30°	357521	279386	55364	12369	14000
35°	363535	278848	18249	12741	14801
40°	369942	253620	8835	13624	16187
45°	364097	232892	9182	14346	17536
50°	270691	43003	9217	15781	19291
55°	21619	5885	9819	16725	20658
60°	4512	6200	9576	16912	21424
65°	4686	5990	9332	16667	22006
70°	4129	5791	9064	15660	21451
75°	3261	5456	7652	15238	20694
80°	3273	4860	8133	14579	19439
85°	3162	6521	9683	12844	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 368481 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.2	4.8
10°-20°	194.4	13.5
20°-30°	326.4	22.6
30°-40°	392.6	27.2
40°-50°	311.2	21.6
50°-60°	99.5	6.9
60°-70°	27.8	1.9
70°-80°	16.6	1.1
80°-90°	5.2	0.4
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°	590.0	40.9
0°-40°	982.6	68.1
0°-60°	1393.4	96.6
0°-90°	1443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1443.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	760	760	760	760	760	
5°	1112	1069	760	454	355	105
15°	1472	1159	701	75	74	414
25°	1786	1428	470	66	69	817
35°	1729	1326	87	61	70	1083
45°	1495	956	38	59	72	1074
55°	72	20	33	56	69	226
65°	12	15	23	41	54	11
75°	5	8	12	23	31	6
85°	2	3	5	6	8	1
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°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	1013.5	1020.1	1020.1	1011.9	1015.2	1002.1	992.2	977.5	974.2	956.2	933.3
5°	1111.8	1108.5	1108.5	1101.9	1105.2	1100.3	1095.4	1092.1	1082.3	1069.2	1056.1
7.5°	1113.4	1116.7	1118.3	1116.7	1123.2	1118.3	1118.3	1118.3	1111.8	1105.2	1092.1
10°	1139.6	1134.7	1129.8	1118.3	1111.8	1106.9	1106.9	1108.5	1111.8	1108.5	1100.3
12.5°	1327.9	1309.9	1301.7	1273.9	1252.6	1216.6	1175.6	1144.5	1116.7	1106.9	1100.3
15°	1472.0	1468.7	1452.3	1426.1	1399.9	1357.4	1309.9	1262.4	1211.6	1159.2	1121.6
17.5°	1557.1	1550.6	1534.2	1506.4	1475.3	1436.0	1398.3	1362.3	1313.2	1254.2	1193.6
20°	1635.7	1621.0	1599.7	1567.0	1535.8	1498.2	1457.2	1422.9	1381.9	1336.1	1265.7
22.5°	1706.1	1693.0	1658.6	1614.4	1583.3	1547.3	1511.3	1478.5	1440.9	1388.5	1324.6
25°	1786.4	1756.9	1701.2	1643.9	1606.2	1576.8	1550.6	1524.4	1485.1	1427.8	1352.5
27.5°	1825.7	1784.7	1724.1	1666.8	1630.8	1599.7	1571.9	1545.7	1501.5	1431.1	1344.3
30°	1797.8	1774.9	1732.3	1688.1	1658.6	1629.2	1596.4	1557.1	1486.7	1404.9	1324.6
32.5°	1765.1	1753.6	1734.0	1707.8	1689.8	1660.3	1614.4	1550.6	1452.3	1372.1	1285.3
35°	1729.1	1724.1	1717.6	1706.1	1694.7	1666.8	1609.5	1516.2	1418.0	1326.3	1242.8
37.5°	1691.4	1686.5	1691.4	1689.8	1679.9	1643.9	1557.1	1470.3	1368.8	1275.5	1113.4
40°	1645.5	1642.3	1650.5	1658.6	1647.2	1599.7	1506.4	1401.6	1311.5	1128.1	1072.5
42.5°	1591.5	1589.9	1604.6	1611.2	1594.8	1524.4	1414.7	1337.7	1147.8	1088.8	957.9
45°	1494.9	1498.2	1504.7	1512.9	1503.1	1426.1	1326.3	1185.4	1101.9	956.2	545.2
47.5°	1170.7	1174.0	1206.7	1275.5	1323.0	1296.8	1211.6	1106.9	985.7	546.9	171.9
50°	1010.3	1007.0	1008.6	1025.0	1062.6	1098.7	1072.5	1015.2	587.8	160.5	21.3
52.5°	443.7	492.8	545.2	692.6	787.6	887.4	907.1	635.3	191.6	21.3	21.3
55°	72.0	75.3	95.0	139.2	250.5	378.2	458.5	212.9	19.6	19.6	19.6
57.5°	14.7	14.7	14.7	16.4	24.6	52.4	60.6	18.0	18.0	18.0	19.6
60°	13.1	13.1	13.1	13.1	14.7	14.7	14.7	16.4	16.4	18.0	18.0
62.5°	13.1	13.1	13.1	13.1	13.1	13.1	14.7	14.7	16.4	16.4	18.0
65°	11.5	11.5	11.5	11.5	13.1	13.1	13.1	13.1	14.7	14.7	16.4
67.5°	9.8	9.8	9.8	9.8	11.5	11.5	11.5	13.1	13.1	13.1	14.7
70°	8.2	8.2	8.2	8.2	9.8	9.8	9.8	9.8	11.5	11.5	11.5
72.5°	6.5	6.5	6.5	6.5	8.2	8.2	8.2	8.2	9.8	9.8	9.8
75°	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5	8.2	8.2	8.2
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5
80°	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9	4.9	4.9	4.9
82.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
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°	759.7	759.7	759.7	759.7	759.7	759.7	759.7	759.7
2.5°	918.6	895.6	864.5	763.0	669.7	584.5	542.0	537.1
5°	1034.8	1013.5	961.1	759.7	581.3	453.5	376.6	355.3
7.5°	1079.0	1061.0	1015.2	753.2	497.8	325.8	239.1	206.3
10°	1090.5	1079.0	1039.7	741.7	411.0	214.5	113.0	86.8
12.5°	1095.4	1087.2	1049.5	723.7	324.2	111.3	77.0	77.0
15°	1103.6	1095.4	1059.4	700.8	239.1	75.3	73.7	73.7
17.5°	1139.6	1113.4	1072.5	666.4	157.2	72.0	72.0	72.0
20°	1198.5	1141.2	1079.0	620.6	98.2	70.4	70.4	72.0
22.5°	1247.7	1170.7	1077.4	551.8	72.0	67.1	68.8	70.4
25°	1269.0	1183.8	1062.6	469.9	62.2	65.5	68.8	68.8
27.5°	1265.7	1188.7	1049.5	376.6	58.9	63.9	67.1	70.4
30°	1247.7	1175.6	1020.1	278.4	55.7	62.2	67.1	70.4
32.5°	1216.6	1124.9	961.1	180.1	54.0	62.2	67.1	70.4
35°	1115.0	1043.0	876.0	86.8	52.4	60.6	68.8	70.4
37.5°	1056.1	956.2	668.0	42.6	50.8	60.6	68.8	70.4
40°	961.1	713.9	301.3	39.3	50.8	60.6	68.8	72.0
42.5°	604.2	293.1	49.1	37.7	49.1	60.6	68.8	72.0
45°	221.0	39.3	26.2	37.7	49.1	58.9	68.8	72.0
47.5°	22.9	22.9	24.6	36.0	47.5	58.9	68.8	72.0
50°	21.3	22.9	24.6	34.4	45.8	58.9	67.1	72.0
52.5°	21.3	22.9	24.6	34.4	44.2	57.3	67.1	72.0
55°	21.3	22.9	22.9	32.7	42.6	55.7	65.5	68.8
57.5°	19.6	21.3	22.9	31.1	40.9	52.4	63.9	67.1
60°	19.6	21.3	22.9	27.8	39.3	49.1	60.6	62.2
62.5°	18.0	19.6	21.3	26.2	36.0	45.8	55.7	58.9
65°	18.0	18.0	19.6	22.9	32.7	40.9	50.8	54.0
67.5°	14.7	16.4	16.4	19.6	27.8	36.0	45.8	49.1
70°	13.1	13.1	14.7	18.0	24.6	31.1	39.3	42.6
72.5°	11.5	11.5	11.5	14.7	21.3	27.8	34.4	37.7
75°	9.8	9.8	9.8	11.5	18.0	22.9	29.5	31.1
77.5°	8.2	8.2	8.2	9.8	14.7	19.6	22.9	26.2
80°	6.5	6.5	6.5	8.2	11.5	14.7	18.0	19.6
82.5°	4.9	4.9	4.9	6.5	8.2	9.8	13.1	13.1
85°	3.3	3.3	3.3	4.9	4.9	6.5	8.2	8.2
87.5°	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)