

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: P1311360

Luminaire Tested: LDSQA3D09R509040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R509040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

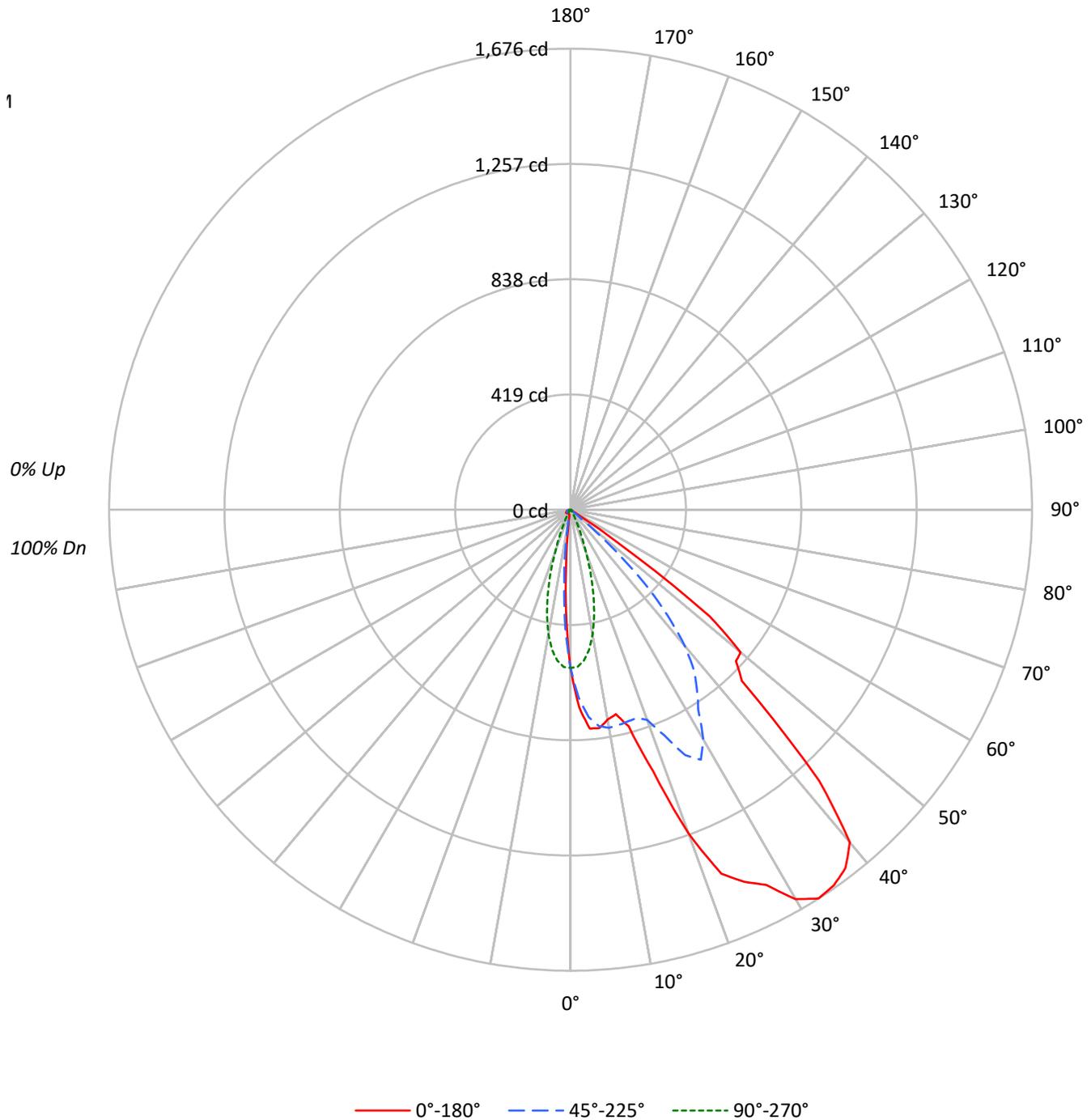
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 894.0 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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 (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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	98994	98994	98994	98994	98994
5°	138028	130940	95153	45727	29666
10°	135497	140725	80410	9636	4127
15°	145295	142210	56859	3370	3227
20°	229443	148911	30021	2877	3024
25°	283520	187024	11972	2698	2983
30°	325046	191806	4852	2665	3122
35°	350436	168343	2144	2817	3469
40°	354745	144964	1596	3192	3889
45°	214406	93965	1534	3459	4408
50°	216006	16237	1688	4019	5064
55°	63835	931	1892	4504	5675
60°	1068	1068	1894	4891	6234
65°	978	978	1915	5135	6724
70°	1209	1209	1964	5539	7553
75°	1065	1065	2063	5789	7852
80°	793	1587	2380	5455	8629
85°	1581	3162	3162	6126	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 244875 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	5.2
10°-20°	115.4	12.9
20°-30°	216.2	24.2
30°-40°	258.5	28.9
40°-50°	185.2	20.7
50°-60°	57.1	6.4
60°-70°	7.4	0.8
70°-80°	5.4	0.6
80°-90°	2.2	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°	378.1	42.3
0°-40°	636.6	71.2
0°-60°	878.9	98.3
0°-90°	894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	894.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	575	575	575	575	575	
5°	798	757	550	264	172	74
15°	815	798	319	19	18	261
25°	1492	984	63	14	16	687
35°	1667	801	10	13	16	1034
45°	880	386	6	14	18	808
55°	213	3	6	15	19	274
65°	2	2	5	13	16	3
75°	2	2	3	9	12	1
85°	1	2	2	3	4	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°	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8
2.5°	718.9	720.4	722.8	716.5	712.6	709.4	703.9	702.3	688.9	683.4	677.9
5°	798.4	796.8	798.4	796.0	794.4	789.7	785.0	777.1	768.5	757.4	744.8
7.5°	800.7	799.2	802.3	802.3	805.5	805.5	805.5	806.2	801.5	793.6	782.6
10°	774.8	774.8	777.9	776.3	781.8	784.2	789.7	799.2	803.9	804.7	801.5
12.5°	761.4	761.4	762.2	759.0	760.6	762.9	769.2	780.3	791.3	802.3	808.6
15°	814.9	816.5	805.5	789.7	777.9	765.3	761.4	768.5	780.3	797.6	811.8
17.5°	996.8	999.1	987.3	949.5	913.3	861.4	814.9	792.1	779.5	793.6	812.5
20°	1251.9	1243.2	1222.8	1182.6	1129.8	1049.5	977.1	903.9	833.8	812.5	818.8
22.5°	1432.2	1429.0	1412.5	1367.6	1322.0	1247.2	1155.0	1052.7	951.1	886.6	852.7
25°	1492.0	1489.7	1474.7	1447.9	1422.7	1366.1	1283.4	1180.2	1073.9	984.2	899.2
27.5°	1536.9	1533.8	1510.1	1480.2	1454.2	1396.8	1321.2	1243.2	1145.6	1024.3	893.6
30°	1634.5	1625.9	1592.8	1539.3	1489.7	1410.1	1326.7	1229.8	1097.6	964.5	837.0
32.5°	1675.5	1670.8	1642.4	1599.1	1544.8	1440.9	1314.1	1151.9	977.9	862.9	770.0
35°	1666.8	1659.7	1630.6	1581.0	1514.9	1414.9	1245.6	1022.8	881.0	800.7	696.0
37.5°	1640.8	1630.6	1596.0	1537.7	1457.4	1326.7	1105.4	918.1	826.7	736.2	595.2
40°	1577.9	1561.3	1521.2	1460.5	1380.2	1208.6	977.9	855.1	770.0	644.8	482.6
42.5°	1336.9	1328.3	1347.9	1337.7	1266.8	1064.5	887.3	797.6	680.3	521.2	349.6
45°	880.3	895.2	930.6	991.3	1005.4	915.7	813.3	703.1	559.8	385.8	201.6
47.5°	814.9	811.8	820.4	832.2	834.6	796.8	703.9	581.1	415.7	220.5	55.9
50°	806.2	801.5	794.4	780.3	750.3	677.1	571.6	423.6	240.1	60.6	3.9
52.5°	637.0	632.2	632.2	611.8	573.2	502.3	394.5	233.1	66.9	3.9	3.1
55°	212.6	226.8	224.4	223.6	240.9	222.0	170.1	59.8	5.5	3.1	3.1
57.5°	3.9	3.9	3.9	7.1	11.0	15.7	9.4	4.7	3.1	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.1
67.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4
77.5°	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	574.8	574.8	574.8	574.8	574.8	574.8	574.8	574.8
2.5°	665.3	654.3	633.0	572.4	505.5	429.1	377.1	370.8
5°	725.1	708.6	674.0	550.4	397.6	264.5	196.8	171.6
7.5°	764.5	742.5	700.0	514.1	289.7	139.4	74.8	59.8
10°	788.1	767.7	713.3	459.8	184.2	55.1	25.2	23.6
12.5°	800.7	781.1	718.1	394.5	103.9	25.2	19.7	19.7
15°	809.4	788.1	711.0	318.9	52.0	18.9	18.1	18.1
17.5°	813.3	787.4	690.5	240.1	27.6	17.3	17.3	17.3
20°	815.7	778.7	652.7	163.8	18.9	15.7	16.5	16.5
22.5°	818.1	757.4	603.1	103.9	15.0	15.0	15.7	15.7
25°	813.3	720.4	533.0	63.0	13.4	14.2	15.0	15.7
27.5°	779.5	664.5	448.0	38.6	11.8	13.4	15.0	15.7
30°	721.2	582.6	349.6	24.4	11.0	13.4	15.0	15.7
32.5°	645.6	488.9	249.6	15.0	11.0	13.4	15.0	15.7
35°	544.1	374.0	162.2	10.2	11.0	13.4	15.7	16.5
37.5°	429.9	261.4	87.4	7.9	11.0	13.4	15.7	16.5
40°	309.4	156.7	31.5	7.1	10.2	14.2	16.5	17.3
42.5°	181.1	58.3	5.5	6.3	10.2	14.2	16.5	17.3
45°	52.0	6.3	3.1	6.3	10.2	14.2	17.3	18.1
47.5°	3.9	2.4	3.1	6.3	10.2	14.2	17.3	18.9
50°	2.4	2.4	2.4	6.3	10.2	15.0	18.1	18.9
52.5°	3.1	3.1	3.1	6.3	10.2	15.0	18.1	18.9
55°	3.1	3.1	3.1	6.3	10.2	15.0	18.1	18.9
57.5°	3.1	3.1	3.1	6.3	10.2	14.2	18.1	18.9
60°	3.1	3.1	3.1	5.5	9.4	14.2	17.3	18.1
62.5°	3.1	3.1	3.1	5.5	9.4	13.4	17.3	17.3
65°	3.1	3.1	3.1	4.7	8.7	12.6	15.7	16.5
67.5°	3.1	3.1	3.1	4.7	7.9	11.8	15.0	15.7
70°	2.4	3.1	3.1	3.9	7.1	11.0	14.2	15.0
72.5°	2.4	2.4	3.1	3.9	6.3	9.4	12.6	13.4
75°	2.4	2.4	2.4	3.1	5.5	8.7	11.0	11.8
77.5°	2.4	2.4	2.4	3.1	4.7	7.1	10.2	10.2
80°	1.6	2.4	2.4	2.4	3.9	5.5	7.9	8.7
82.5°	1.6	1.6	1.6	2.4	3.1	4.7	6.3	6.3
85°	1.6	1.6	1.6	1.6	2.4	3.1	3.9	3.9
87.5°	0.8	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

(END OF REPORT)