

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: P1315961

Luminaire Tested: LDSQA3D20R459735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315961
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: LDSQA3D20R459735D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

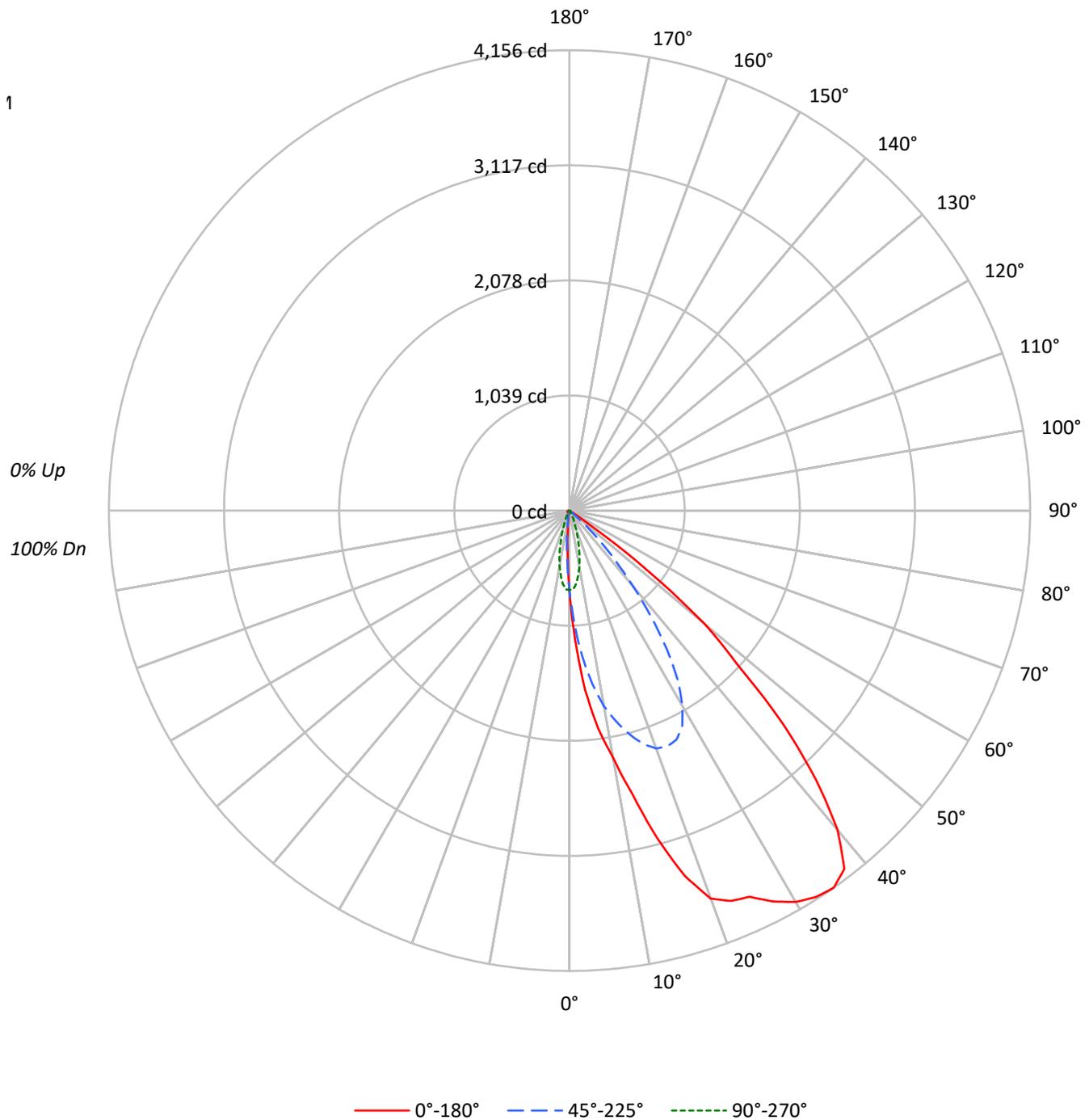
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1882.9 lumens
Efficiency: N/A
Efficacy: 65.4 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): 28.8
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°	123398	123398	123398	123398	123398
5°	281225	228150	115432	46280	31585
10°	396294	313401	89223	10195	4687
15°	546109	372875	57002	3370	2799
20°	682866	418785	29727	2309	2309
25°	730767	433603	13758	1786	2090
30°	811093	404930	6264	1869	2188
35°	873736	322810	1976	1976	2649
40°	845438	200023	1057	2473	3192
45°	663919	94355	1145	3069	3824
50°	426573	10958	1688	3805	5064
55°	64766	931	1892	4714	6155
60°	1068	1068	2170	5408	6510
65°	1263	1263	2567	5787	7702
70°	1561	1561	3172	6345	8711
75°	1065	2063	4192	7320	9449
80°	1587	3075	4661	7835	10910
85°	0	3162	6126	9287	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 663919 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.4	4.2
10°-20°	283.5	15.1
20°-30°	498.1	26.5
30°-40°	565.6	30.0
40°-50°	366.2	19.4
50°-60°	71.9	3.8
60°-70°	8.7	0.5
70°-80°	7.2	0.4
80°-90°	3.3	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°	860.0	45.7
0°-40°	1425.6	75.7
0°-60°	1863.7	99.0
0°-90°	1882.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	1627	1320	668	268	183	173
15°	3063	2091	320	19	16	882
25°	3846	2282	72	9	11	1803
35°	4156	1535	9	9	13	2555
45°	2726	387	5	13	16	2055
55°	216	3	6	16	20	412
65°	3	3	6	14	19	3
75°	2	3	6	11	14	2
85°	0	2	3	5	5	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°	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5
2.5°	1163.8	1160.6	1165.3	1133.8	1132.3	1108.6	1102.3	1075.6	1039.3	1022.0	981.1
5°	1626.7	1611.0	1611.0	1573.2	1560.6	1533.8	1488.2	1431.5	1384.2	1319.7	1250.4
7.5°	1984.2	1981.1	1981.1	1948.0	1916.5	1878.7	1817.3	1752.7	1677.1	1577.9	1477.1
10°	2266.1	2270.8	2256.6	2226.7	2181.1	2140.1	2067.7	1988.9	1896.0	1792.1	1658.2
12.5°	2622.0	2587.3	2576.3	2508.6	2450.3	2371.6	2285.0	2195.2	2080.3	1949.6	1798.4
15°	3062.9	3018.8	2974.7	2885.0	2787.3	2666.1	2530.7	2398.4	2250.3	2091.3	1902.3
17.5°	3456.6	3456.6	3398.3	3256.6	3130.6	2951.1	2768.4	2592.1	2417.3	2207.8	1971.6
20°	3725.9	3711.7	3667.6	3563.7	3420.4	3217.2	2979.5	2732.2	2521.2	2285.0	2011.0
22.5°	3814.1	3810.9	3812.5	3751.1	3636.1	3425.1	3133.8	2842.5	2577.9	2303.9	1992.1
25°	3845.6	3851.9	3867.6	3844.0	3757.4	3546.4	3228.3	2894.4	2595.2	2281.8	1919.6
27.5°	3976.3	3963.7	3981.0	3965.3	3867.6	3615.7	3247.2	2881.8	2557.4	2201.5	1790.5
30°	4078.6	4075.5	4105.4	4091.2	3963.7	3659.8	3229.8	2834.6	2464.5	2036.2	1587.4
32.5°	4136.9	4138.5	4146.4	4088.1	3899.1	3563.7	3144.8	2738.5	2289.7	1820.4	1322.8
35°	4155.8	4146.4	4102.3	3959.0	3700.7	3341.7	2935.4	2510.2	2051.9	1535.4	1045.6
37.5°	4073.9	4025.1	3911.7	3697.6	3398.3	3062.9	2667.7	2222.0	1725.9	1212.6	779.5
40°	3760.5	3696.0	3552.7	3333.8	3055.0	2730.6	2325.9	1859.8	1338.6	889.7	548.0
42.5°	3291.3	3258.2	3108.6	2918.0	2681.8	2354.3	1937.0	1464.5	990.5	614.2	349.6
45°	2725.9	2683.4	2588.9	2420.4	2234.6	1891.3	1502.3	1048.8	675.6	387.4	173.2
47.5°	2044.0	2047.2	1982.6	1855.1	1672.4	1385.8	1028.3	703.9	423.6	200.0	39.4
50°	1592.1	1570.0	1478.7	1348.0	1135.4	922.8	664.6	444.1	223.6	40.9	3.1
52.5°	881.9	896.0	847.2	804.7	694.5	551.2	392.1	225.2	47.2	4.7	3.1
55°	215.7	228.3	218.9	223.6	231.5	206.3	159.1	44.1	4.7	3.1	3.1
57.5°	4.7	4.7	4.7	4.7	7.9	11.0	11.0	3.1	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°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	3.1	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	716.5	716.5	716.5	716.5	716.5	716.5	716.5	716.5
2.5°	960.6	930.7	875.6	711.8	571.6	461.4	395.3	389.0
5°	1188.9	1108.6	992.1	667.7	422.0	267.7	193.7	182.7
7.5°	1370.0	1256.7	1077.1	595.3	288.2	137.0	75.6	63.0
10°	1519.7	1359.0	1121.2	510.2	181.1	58.3	31.5	26.8
12.5°	1622.0	1428.3	1129.1	415.7	103.9	28.3	20.5	18.9
15°	1688.2	1450.4	1091.3	319.7	58.3	18.9	17.3	15.7
17.5°	1714.9	1431.5	1018.9	231.5	31.5	14.2	14.2	14.2
20°	1702.3	1370.0	911.8	162.2	20.5	12.6	12.6	12.6
22.5°	1642.5	1264.5	777.9	108.7	14.2	11.0	11.0	11.0
25°	1524.4	1121.2	636.2	72.4	9.4	9.4	11.0	11.0
27.5°	1348.0	944.9	486.6	48.8	7.9	9.4	11.0	11.0
30°	1126.0	748.0	349.6	31.5	7.9	9.4	9.4	11.0
32.5°	894.5	544.9	229.9	18.9	6.3	9.4	11.0	12.6
35°	648.8	371.6	146.5	9.4	7.9	9.4	11.0	12.6
37.5°	455.1	242.5	85.0	6.3	7.9	9.4	12.6	12.6
40°	296.1	135.4	31.5	4.7	7.9	11.0	12.6	14.2
42.5°	154.3	47.2	6.3	4.7	7.9	11.0	14.2	15.7
45°	39.4	6.3	1.6	4.7	9.4	12.6	15.7	15.7
47.5°	4.7	1.6	1.6	6.3	9.4	14.2	15.7	17.3
50°	1.6	3.1	3.1	6.3	9.4	14.2	17.3	18.9
52.5°	3.1	3.1	3.1	6.3	11.0	14.2	18.9	20.5
55°	3.1	3.1	3.1	6.3	11.0	15.7	18.9	20.5
57.5°	3.1	3.1	3.1	6.3	11.0	15.7	18.9	18.9
60°	3.1	3.1	3.1	6.3	11.0	15.7	18.9	18.9
62.5°	3.1	3.1	4.7	6.3	11.0	14.2	18.9	18.9
65°	3.1	4.7	4.7	6.3	11.0	14.2	17.3	18.9
67.5°	3.1	3.1	4.7	6.3	11.0	14.2	17.3	18.9
70°	3.1	3.1	4.7	6.3	9.4	12.6	15.7	17.3
72.5°	3.1	3.1	4.7	6.3	9.4	12.6	14.2	15.7
75°	3.1	3.1	4.7	6.3	7.9	11.0	14.2	14.2
77.5°	3.1	3.1	4.7	4.7	7.9	9.4	12.6	12.6
80°	3.1	3.1	4.7	4.7	6.3	7.9	9.4	11.0
82.5°	3.1	3.1	3.1	4.7	4.7	6.3	7.9	7.9
85°	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7
87.5°	1.6	3.1	3.1	3.1	3.1	3.1	3.1	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)