

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: P1314989

Luminaire Tested: LDSQA3D20R459730D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314989
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: LDSQA3D20R459730D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

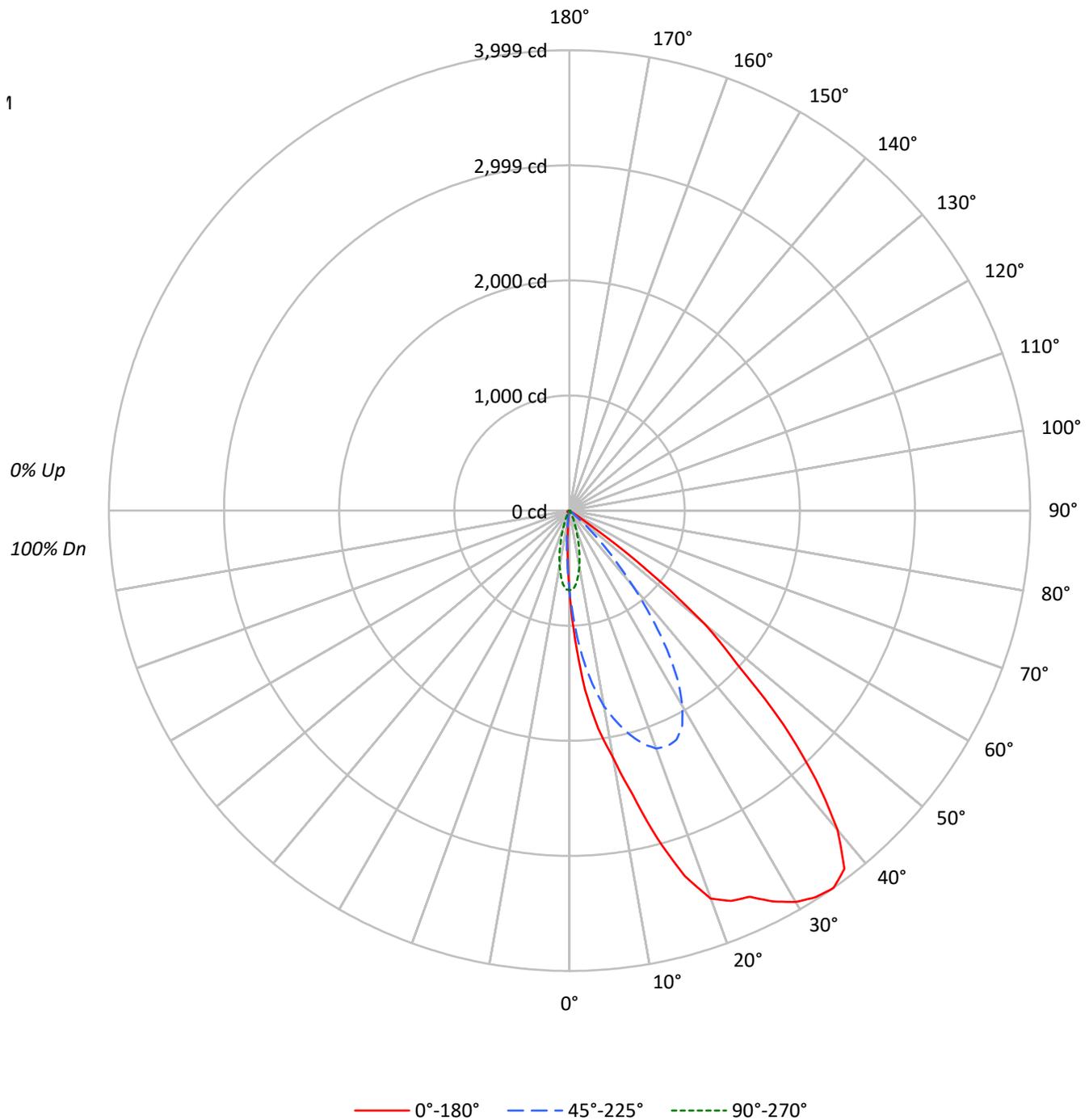
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1812.0 lumens
Efficiency: N/A
Efficacy: 62.9 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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	118748	118748	118748	118748	118748
5°	270627	219541	111076	44534	30392
10°	381342	301580	85866	9811	4512
15°	525516	358807	54844	3245	2710
20°	657116	402986	28609	2218	2218
25°	703213	417261	13245	1729	2014
30°	780527	389657	6026	1810	2108
35°	840791	310637	1913	1913	2544
40°	813581	192491	1012	2383	3058
45°	638881	90799	1096	2947	3702
50°	410497	10556	1634	3644	4876
55°	62334	901	1832	4564	5915
60°	1033	1033	2101	5236	6269
65°	1223	1223	2486	5542	7417
70°	1511	1511	3072	6093	8409
75°	998	1996	4059	7053	9050
80°	1488	2975	4463	7538	10513
85°	0	2964	5928	8892	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 638881 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	4.2
10°-20°	272.8	15.1
20°-30°	479.3	26.5
30°-40°	544.3	30.0
40°-50°	352.4	19.4
50°-60°	69.2	3.8
60°-70°	8.4	0.5
70°-80°	7.0	0.4
80°-90°	3.2	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°	827.6	45.7
0°-40°	1371.8	75.7
0°-60°	1793.4	99.0
0°-90°	1812.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1812.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	690	690	690	690	690	
5°	1565	1270	642	258	176	167
15°	2947	2012	308	18	15	849
25°	3701	2196	70	9	11	1735
35°	3999	1478	9	9	12	2458
45°	2623	373	4	12	15	1977
55°	208	3	6	15	20	396
65°	3	3	6	14	18	3
75°	2	3	6	11	14	2
85°	0	2	3	4	4	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°	689.5	689.5	689.5	689.5	689.5	689.5	689.5	689.5	689.5	689.5	689.5
2.5°	1119.9	1116.8	1121.4	1091.1	1089.6	1066.8	1060.8	1035.0	1000.2	983.5	944.1
5°	1565.4	1550.2	1550.2	1513.9	1501.8	1476.0	1432.0	1377.5	1332.0	1269.9	1203.2
7.5°	1909.4	1906.4	1906.4	1874.5	1844.2	1807.9	1748.8	1686.6	1613.9	1518.4	1421.4
10°	2180.6	2185.2	2171.6	2142.8	2098.8	2059.4	1989.7	1913.9	1824.5	1724.5	1595.7
12.5°	2523.1	2489.8	2479.2	2414.0	2357.9	2282.2	2198.8	2112.5	2001.8	1876.1	1730.6
15°	2947.4	2905.0	2862.6	2776.2	2682.2	2565.6	2435.2	2307.9	2165.5	2012.4	1830.6
17.5°	3326.3	3326.3	3270.2	3133.8	3012.6	2839.8	2664.1	2494.3	2326.1	2124.6	1897.3
20°	3585.4	3571.8	3529.3	3429.3	3291.4	3095.9	2867.1	2629.2	2426.1	2198.8	1935.2
22.5°	3670.3	3667.2	3668.8	3609.7	3499.0	3296.0	3015.6	2735.3	2480.7	2217.0	1917.0
25°	3700.6	3706.6	3721.8	3699.1	3615.7	3412.7	3106.5	2785.3	2497.4	2195.8	1847.3
27.5°	3826.4	3814.2	3830.9	3815.8	3721.8	3479.3	3124.7	2773.2	2461.0	2118.5	1723.0
30°	3924.9	3921.8	3950.6	3937.0	3814.2	3521.8	3108.1	2727.7	2371.6	1959.4	1527.5
32.5°	3980.9	3982.4	3990.0	3934.0	3752.1	3429.3	3026.2	2635.3	2203.4	1751.8	1272.9
35°	3999.1	3990.0	3947.6	3809.7	3561.2	3215.7	2824.7	2415.5	1974.6	1477.5	1006.2
37.5°	3920.3	3873.3	3764.2	3558.1	3270.2	2947.4	2567.1	2138.2	1660.9	1166.8	750.1
40°	3618.8	3556.6	3418.7	3208.1	2939.9	2627.7	2238.2	1789.7	1288.1	856.2	527.4
42.5°	3167.2	3135.3	2991.4	2808.0	2580.7	2265.5	1863.9	1409.3	953.2	591.0	336.4
45°	2623.1	2582.2	2491.3	2329.2	2150.3	1820.0	1445.7	1009.2	650.1	372.8	166.7
47.5°	1967.0	1970.0	1907.9	1785.1	1609.3	1333.5	989.5	677.4	407.6	192.5	37.9
50°	1532.1	1510.8	1423.0	1297.2	1092.6	888.0	639.5	427.3	215.2	39.4	3.0
52.5°	848.6	862.3	815.3	774.4	668.3	530.4	377.3	216.7	45.5	4.5	3.0
55°	207.6	219.7	210.6	215.2	222.8	198.5	153.1	42.4	4.5	3.0	3.0
57.5°	4.5	4.5	4.5	4.5	7.6	10.6	10.6	3.0	3.0	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	3.0	3.0	3.0	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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°	689.5	689.5	689.5	689.5	689.5	689.5	689.5	689.5
2.5°	924.4	895.6	842.6	685.0	550.1	444.0	380.4	374.3
5°	1144.1	1066.8	954.7	642.5	406.1	257.6	186.4	175.8
7.5°	1318.4	1209.3	1036.5	572.8	277.3	131.8	72.7	60.6
10°	1462.4	1307.8	1079.0	491.0	174.3	56.1	30.3	25.8
12.5°	1560.9	1374.5	1086.5	400.1	100.0	27.3	19.7	18.2
15°	1624.5	1395.7	1050.2	307.6	56.1	18.2	16.7	15.2
17.5°	1650.3	1377.5	980.5	222.8	30.3	13.6	13.6	13.6
20°	1638.1	1318.4	877.4	156.1	19.7	12.1	12.1	12.1
22.5°	1580.6	1216.9	748.6	104.6	13.6	10.6	10.6	10.6
25°	1466.9	1079.0	612.2	69.7	9.1	9.1	10.6	10.6
27.5°	1297.2	909.2	468.3	47.0	7.6	9.1	10.6	10.6
30°	1083.5	719.8	336.4	30.3	7.6	9.1	9.1	10.6
32.5°	860.7	524.3	221.2	18.2	6.1	9.1	10.6	12.1
35°	624.3	357.6	140.9	9.1	7.6	9.1	10.6	12.1
37.5°	437.9	233.4	81.8	6.1	7.6	9.1	12.1	12.1
40°	284.9	130.3	30.3	4.5	7.6	10.6	12.1	13.6
42.5°	148.5	45.5	6.1	4.5	7.6	10.6	13.6	15.2
45°	37.9	6.1	1.5	4.5	9.1	12.1	15.2	15.2
47.5°	4.5	1.5	1.5	6.1	9.1	13.6	15.2	16.7
50°	1.5	3.0	3.0	6.1	9.1	13.6	16.7	18.2
52.5°	3.0	3.0	3.0	6.1	10.6	13.6	18.2	19.7
55°	3.0	3.0	3.0	6.1	10.6	15.2	18.2	19.7
57.5°	3.0	3.0	3.0	6.1	10.6	15.2	18.2	18.2
60°	3.0	3.0	3.0	6.1	10.6	15.2	18.2	18.2
62.5°	3.0	3.0	4.5	6.1	10.6	13.6	18.2	18.2
65°	3.0	4.5	4.5	6.1	10.6	13.6	16.7	18.2
67.5°	3.0	3.0	4.5	6.1	10.6	13.6	16.7	18.2
70°	3.0	3.0	4.5	6.1	9.1	12.1	15.2	16.7
72.5°	3.0	3.0	4.5	6.1	9.1	12.1	13.6	15.2
75°	3.0	3.0	4.5	6.1	7.6	10.6	13.6	13.6
77.5°	3.0	3.0	4.5	4.5	7.6	9.1	12.1	12.1
80°	3.0	3.0	4.5	4.5	6.1	7.6	9.1	10.6
82.5°	3.0	3.0	3.0	4.5	4.5	6.1	7.6	7.6
85°	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5
87.5°	1.5	3.0	3.0	3.0	3.0	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)