

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: P1307496

Luminaire Tested: LDSQA3D20R459024D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307496
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: LDSQA3D20R459024D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

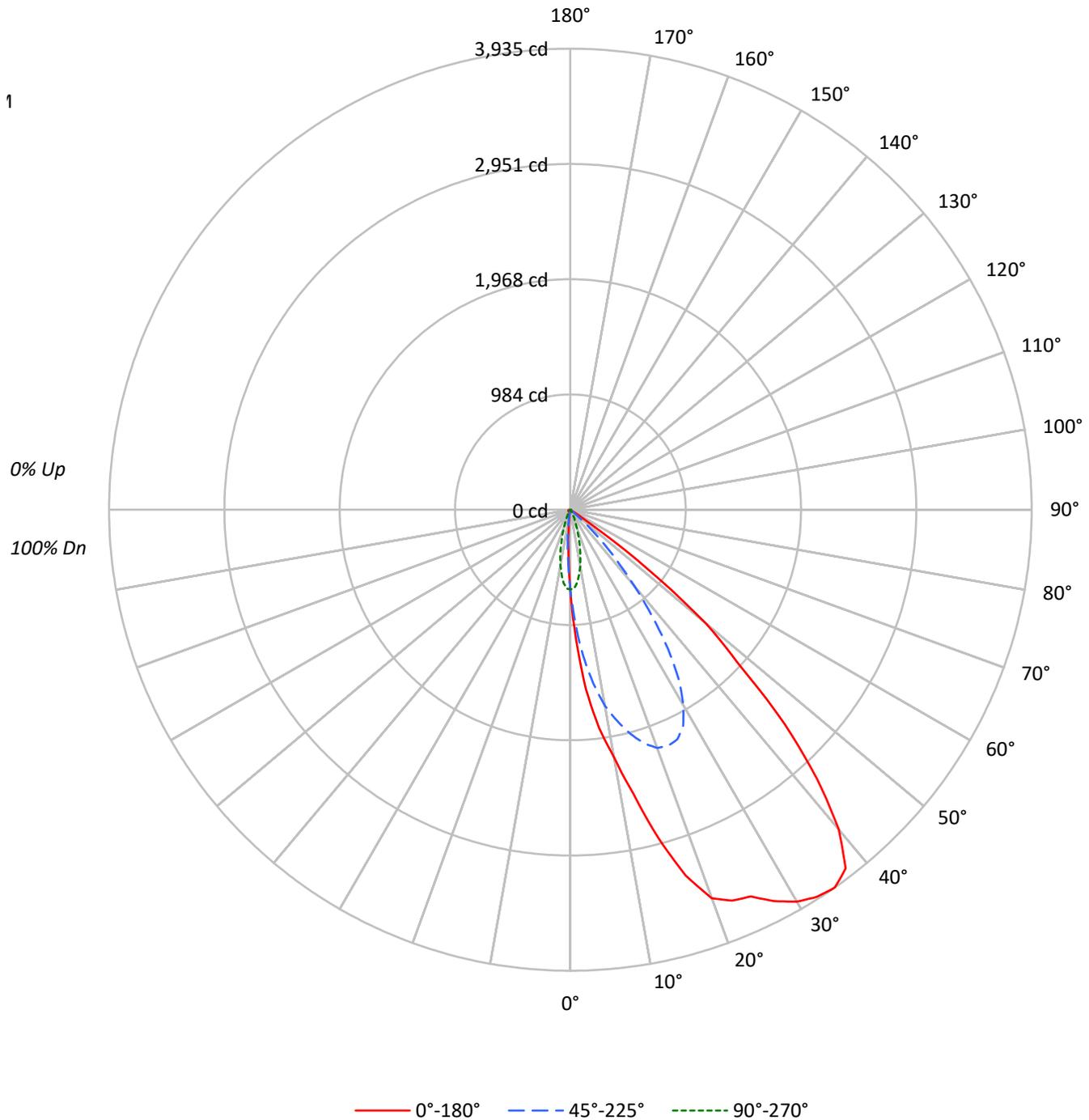
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1783.0 lumens
Efficiency: N/A
Efficacy: 61.9 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 (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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	116853	116853	116853	116853	116853
5°	266288	216031	109295	43825	29908
10°	375239	296753	84484	9653	4424
15°	517118	353066	53971	3192	2657
20°	646596	396535	28151	2181	2181
25°	691963	410591	13036	1691	1976
30°	768019	383413	5926	1770	2068
35°	827335	305675	1871	1871	2502
40°	800542	189411	1012	2338	3013
45°	628676	89338	1096	2898	3629
50°	403906	10396	1608	3590	4796
55°	61343	901	1802	4474	5825
60°	1033	1033	2067	5132	6166
65°	1223	1223	2445	5461	7294
70°	1511	1511	3021	5992	8258
75°	998	1996	3993	6920	8917
80°	1488	2975	4463	7438	10315
85°	0	2964	5928	8892	8892

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 628676 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.2	4.2
10°-20°	268.5	15.1
20°-30°	471.6	26.5
30°-40°	535.6	30.0
40°-50°	346.8	19.4
50°-60°	68.1	3.8
60°-70°	8.3	0.5
70°-80°	6.9	0.4
80°-90°	3.1	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°	814.3	45.7
0°-40°	1349.9	75.7
0°-60°	1764.7	99.0
0°-90°	1783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1783.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	678	678	678	678	678	
5°	1540	1250	632	254	173	164
15°	2900	1980	303	18	15	836
25°	3641	2161	69	9	10	1707
35°	3935	1454	9	9	12	2419
45°	2581	367	4	12	15	1946
55°	204	3	6	15	19	390
65°	3	3	6	13	18	3
75°	2	3	6	10	13	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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	1101.9	1099.0	1103.4	1073.6	1072.1	1049.8	1043.8	1018.4	984.2	967.7	929.0
5°	1540.3	1525.4	1525.4	1489.6	1477.7	1452.4	1409.1	1355.4	1310.7	1249.6	1184.0
7.5°	1878.8	1875.8	1875.8	1844.5	1814.7	1778.9	1720.8	1659.6	1588.1	1494.1	1398.7
10°	2145.7	2150.2	2136.8	2108.5	2065.2	2026.5	1957.9	1883.3	1795.3	1696.9	1570.2
12.5°	2482.7	2449.9	2439.5	2375.4	2320.2	2245.7	2163.6	2078.6	1969.8	1846.0	1702.9
15°	2900.3	2858.5	2816.8	2731.8	2639.3	2524.5	2396.3	2271.0	2130.8	1980.2	1801.3
17.5°	3273.0	3273.0	3217.9	3083.7	2964.4	2794.4	2621.4	2454.4	2288.9	2090.6	1866.9
20°	3528.0	3514.6	3472.9	3374.4	3238.7	3046.4	2821.2	2587.1	2387.3	2163.6	1904.2
22.5°	3611.5	3608.6	3610.0	3551.9	3443.0	3243.2	2967.4	2691.5	2441.0	2181.5	1886.3
25°	3641.4	3647.3	3662.2	3639.9	3557.9	3358.0	3056.8	2740.7	2457.4	2160.7	1817.7
27.5°	3765.1	3753.2	3769.6	3754.7	3662.2	3423.6	3074.7	2728.8	2421.6	2084.6	1695.4
30°	3862.0	3859.1	3887.4	3874.0	3753.2	3465.4	3058.3	2684.0	2333.6	1928.0	1503.1
32.5°	3917.2	3918.7	3926.2	3871.0	3692.1	3374.4	2977.8	2593.1	2168.1	1723.8	1252.6
35°	3935.1	3926.2	3884.4	3748.7	3504.2	3164.2	2779.5	2376.9	1943.0	1453.9	990.1
37.5°	3857.6	3811.3	3704.0	3501.2	3217.9	2900.3	2526.0	2104.0	1634.3	1148.2	738.1
40°	3560.8	3499.7	3364.0	3156.7	2892.8	2585.6	2202.4	1761.0	1267.5	842.5	518.9
42.5°	3116.5	3085.2	2943.5	2763.1	2539.4	2229.2	1834.1	1386.8	937.9	581.5	331.0
45°	2581.2	2540.9	2451.4	2291.9	2115.9	1790.9	1422.5	993.1	639.7	366.8	164.0
47.5°	1935.5	1938.5	1877.3	1756.6	1583.6	1312.2	973.7	666.5	401.1	189.4	37.3
50°	1507.5	1486.7	1400.2	1276.4	1075.1	873.8	629.3	420.5	211.7	38.8	3.0
52.5°	835.0	848.5	802.2	762.0	657.6	521.9	371.3	213.2	44.7	4.5	3.0
55°	204.3	216.2	207.3	211.7	219.2	195.3	150.6	41.8	4.5	3.0	3.0
57.5°	4.5	4.5	4.5	4.5	7.5	10.4	10.4	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°	678.5	678.5	678.5	678.5	678.5	678.5	678.5	678.5
2.5°	909.6	881.3	829.1	674.0	541.3	436.9	374.3	368.3
5°	1125.8	1049.8	939.4	632.2	399.6	253.5	183.4	173.0
7.5°	1297.3	1189.9	1019.9	563.6	272.9	129.7	71.6	59.6
10°	1438.9	1286.9	1061.7	483.1	171.5	55.2	29.8	25.3
12.5°	1535.9	1352.5	1069.1	393.7	98.4	26.8	19.4	17.9
15°	1598.5	1373.3	1033.4	302.7	55.2	17.9	16.4	14.9
17.5°	1623.8	1355.4	964.8	219.2	29.8	13.4	13.4	13.4
20°	1611.9	1297.3	863.4	153.6	19.4	11.9	11.9	11.9
22.5°	1555.3	1197.4	736.6	102.9	13.4	10.4	10.4	10.4
25°	1443.4	1061.7	602.4	68.6	8.9	8.9	10.4	10.4
27.5°	1276.4	894.7	460.8	46.2	7.5	8.9	10.4	10.4
30°	1066.2	708.3	331.0	29.8	7.5	8.9	8.9	10.4
32.5°	847.0	515.9	217.7	17.9	6.0	8.9	10.4	11.9
35°	614.3	351.9	138.7	8.9	7.5	8.9	10.4	11.9
37.5°	430.9	229.6	80.5	6.0	7.5	8.9	11.9	11.9
40°	280.3	128.2	29.8	4.5	7.5	10.4	11.9	13.4
42.5°	146.1	44.7	6.0	4.5	7.5	10.4	13.4	14.9
45°	37.3	6.0	1.5	4.5	8.9	11.9	14.9	14.9
47.5°	4.5	1.5	1.5	6.0	8.9	13.4	14.9	16.4
50°	1.5	3.0	3.0	6.0	8.9	13.4	16.4	17.9
52.5°	3.0	3.0	3.0	6.0	10.4	13.4	17.9	19.4
55°	3.0	3.0	3.0	6.0	10.4	14.9	17.9	19.4
57.5°	3.0	3.0	3.0	6.0	10.4	14.9	17.9	17.9
60°	3.0	3.0	3.0	6.0	10.4	14.9	17.9	17.9
62.5°	3.0	3.0	4.5	6.0	10.4	13.4	17.9	17.9
65°	3.0	4.5	4.5	6.0	10.4	13.4	16.4	17.9
67.5°	3.0	3.0	4.5	6.0	10.4	13.4	16.4	17.9
70°	3.0	3.0	4.5	6.0	8.9	11.9	14.9	16.4
72.5°	3.0	3.0	4.5	6.0	8.9	11.9	13.4	14.9
75°	3.0	3.0	4.5	6.0	7.5	10.4	13.4	13.4
77.5°	3.0	3.0	4.5	4.5	7.5	8.9	11.9	11.9
80°	3.0	3.0	4.5	4.5	6.0	7.5	8.9	10.4
82.5°	3.0	3.0	3.0	4.5	4.5	6.0	7.5	7.5
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)