

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: P1320436

Luminaire Tested: LDSQA3D20R459840D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320436
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R459840D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

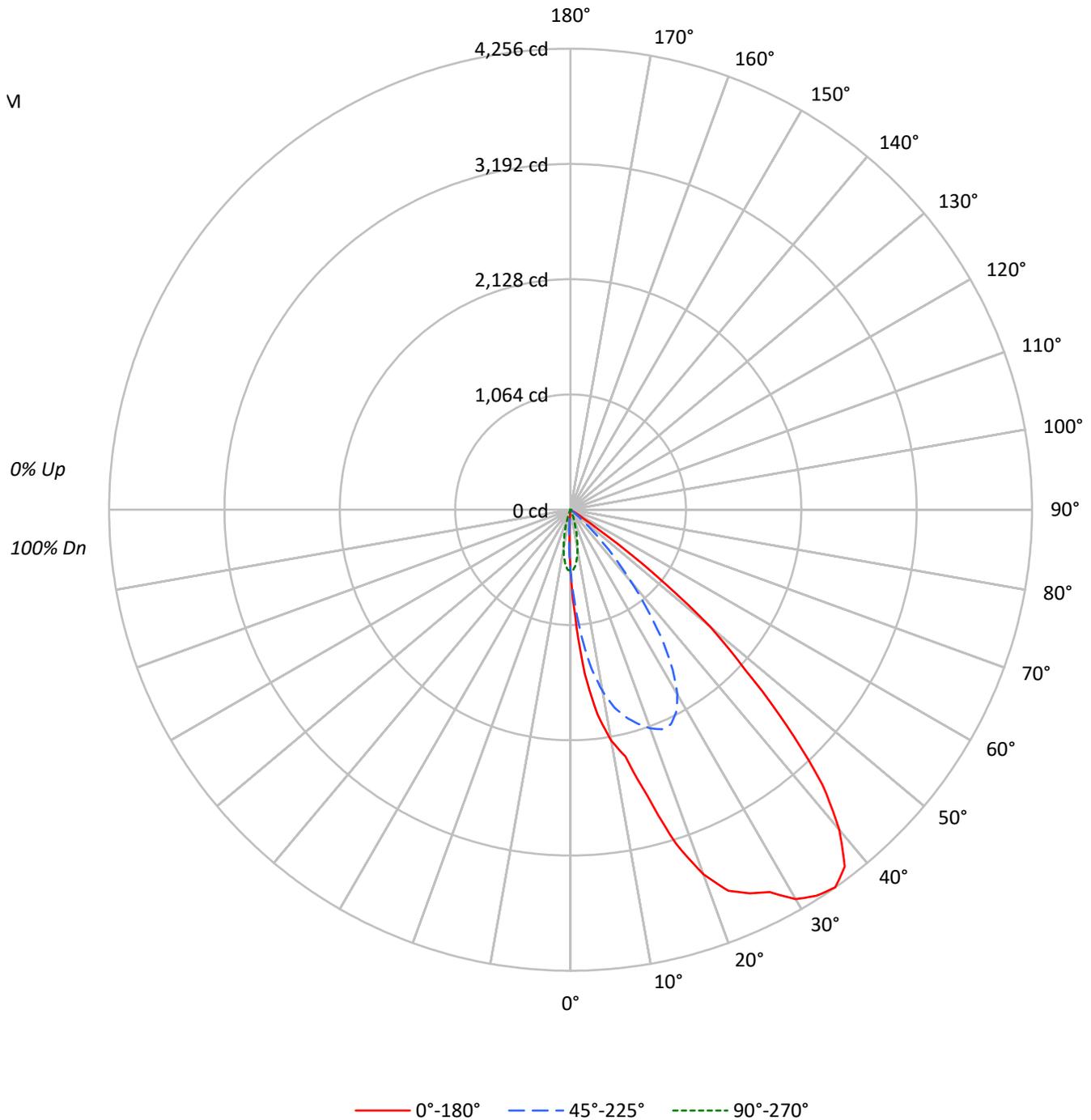
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1804.0 lumens
Efficiency: N/A
Efficacy: 65.8 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	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	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	96496	96496	96496	96496	96496
5°	263435	202685	89310	17910	6725
10°	378334	297348	64565	1696	1417
15°	487057	353672	34358	571	0
20°	656475	393529	13049	0	0
25°	742491	415721	3382	0	0
30°	825332	391904	318	0	0
35°	894698	312529	0	0	0
40°	867156	196223	0	0	0
45°	687423	93478	0	0	0
50°	449910	11709	0	0	0
55°	77317	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	1611	0	0
75°	0	1065	2129	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 687423 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	3.7
10°-20°	257.0	14.2
20°-30°	481.1	26.7
30°-40°	561.5	31.1
40°-50°	366.2	20.3
50°-60°	68.0	3.8
60°-70°	0.6	0.0
70°-80°	1.3	0.1
80°-90°	1.5	0.1
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°	804.8	44.6
0°-40°	1366.3	75.7
0°-60°	1800.5	99.8
0°-90°	1804.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1804.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	560	560	560	560	560	
5°	1524	1172	517	104	39	163
15°	2732	1984	193	3	0	814
25°	3907	2188	18	0	0	1807
35°	4256	1486	0	0	0	2610
45°	2822	384	0	0	0	2146
55°	258	0	0	0	0	448
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3
2.5°	987.8	995.9	979.7	973.2	952.1	957.0	921.4	906.8	884.1	846.9	829.1
5°	1523.8	1509.2	1496.2	1468.7	1452.5	1408.8	1360.2	1305.1	1238.8	1172.4	1096.3
7.5°	1905.9	1894.6	1889.7	1867.0	1834.7	1789.3	1726.2	1656.5	1570.7	1481.7	1366.7
10°	2163.4	2152.0	2132.6	2109.9	2084.0	2046.8	1985.2	1909.1	1815.2	1700.3	1565.9
12.5°	2331.8	2330.2	2297.8	2271.9	2239.5	2207.1	2143.9	2082.4	1990.1	1871.9	1719.7
15°	2731.7	2705.8	2663.7	2590.9	2500.2	2416.0	2314.0	2216.8	2116.4	1983.6	1813.6
17.5°	3230.5	3201.3	3130.1	3037.8	2892.1	2731.7	2556.9	2403.0	2252.4	2072.7	1871.9
20°	3581.9	3570.5	3510.6	3403.7	3248.3	3036.2	2806.2	2589.2	2377.1	2147.2	1899.4
22.5°	3807.0	3800.5	3776.2	3703.3	3544.6	3306.6	3010.3	2718.8	2462.9	2194.1	1891.3
25°	3907.3	3915.4	3918.7	3883.1	3755.1	3512.2	3160.9	2817.6	2511.5	2187.7	1829.8
27.5°	3978.6	3978.6	3991.6	3975.4	3845.8	3590.0	3219.1	2851.6	2495.3	2108.3	1700.3
30°	4150.2	4147.0	4155.1	4111.4	3931.6	3614.3	3193.2	2796.5	2403.0	1970.7	1514.0
32.5°	4224.7	4228.0	4226.3	4156.7	3947.8	3598.1	3130.1	2691.3	2233.0	1755.3	1267.9
35°	4255.5	4240.9	4181.0	4022.3	3758.4	3382.7	2952.0	2513.1	1995.0	1486.5	1000.7
37.5°	4153.5	4111.4	3978.6	3761.6	3439.4	3078.3	2657.3	2194.1	1679.2	1165.9	753.0
40°	3857.1	3802.1	3635.3	3373.0	3078.3	2752.8	2309.1	1820.1	1313.2	872.8	527.9
42.5°	3437.8	3374.6	3194.9	2966.5	2697.7	2356.1	1914.0	1425.0	961.9	602.4	335.2
45°	2822.4	2786.8	2683.2	2490.5	2226.5	1871.9	1467.1	1039.6	665.5	383.8	171.6
47.5°	2182.8	2137.5	2063.0	1930.2	1710.0	1373.2	1026.6	706.0	427.5	189.5	35.6
50°	1679.2	1625.8	1535.1	1387.7	1157.8	916.5	665.5	440.4	217.0	43.7	1.6
52.5°	966.7	978.1	934.3	840.4	712.5	548.9	385.4	221.8	48.6	1.6	0.0
55°	257.5	278.5	272.0	293.1	257.5	217.0	160.3	42.1	3.2	0.0	0.0
57.5°	0.0	0.0	1.6	3.2	9.7	14.6	4.9	1.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	560.3	560.3	560.3	560.3	560.3	560.3	560.3	560.3
2.5°	788.6	754.6	712.5	557.0	419.4	301.2	234.8	217.0
5°	1023.4	940.8	833.9	516.6	259.1	103.6	47.0	38.9
7.5°	1245.2	1123.8	931.1	451.8	131.2	25.9	13.0	11.3
10°	1416.9	1253.3	1002.3	369.2	48.6	9.7	8.1	8.1
12.5°	1535.1	1335.9	1028.2	280.1	17.8	4.9	4.9	3.2
15°	1603.1	1368.3	1004.0	192.7	6.5	3.2	0.0	0.0
17.5°	1624.1	1355.3	939.2	121.4	1.6	0.0	0.0	0.0
20°	1606.3	1292.2	837.2	71.2	0.0	0.0	0.0	0.0
22.5°	1548.0	1193.4	714.1	38.9	0.0	0.0	0.0	0.0
25°	1439.5	1054.2	570.0	17.8	0.0	0.0	0.0	0.0
27.5°	1263.0	874.4	429.1	6.5	0.0	0.0	0.0	0.0
30°	1062.3	681.7	304.4	1.6	0.0	0.0	0.0	0.0
32.5°	829.1	502.0	195.9	0.0	0.0	0.0	0.0	0.0
35°	623.4	351.4	116.6	0.0	0.0	0.0	0.0	0.0
37.5°	434.0	221.8	61.5	0.0	0.0	0.0	0.0	0.0
40°	270.4	119.8	21.1	0.0	0.0	0.0	0.0	0.0
42.5°	150.6	42.1	1.6	0.0	0.0	0.0	0.0	0.0
45°	35.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	1.6	3.2	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
75°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
77.5°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
80°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
82.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
85°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
87.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)