

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: P1320437

Luminaire Tested: LDSQA3D20R459840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320437
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: LDSQA3D20R459840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

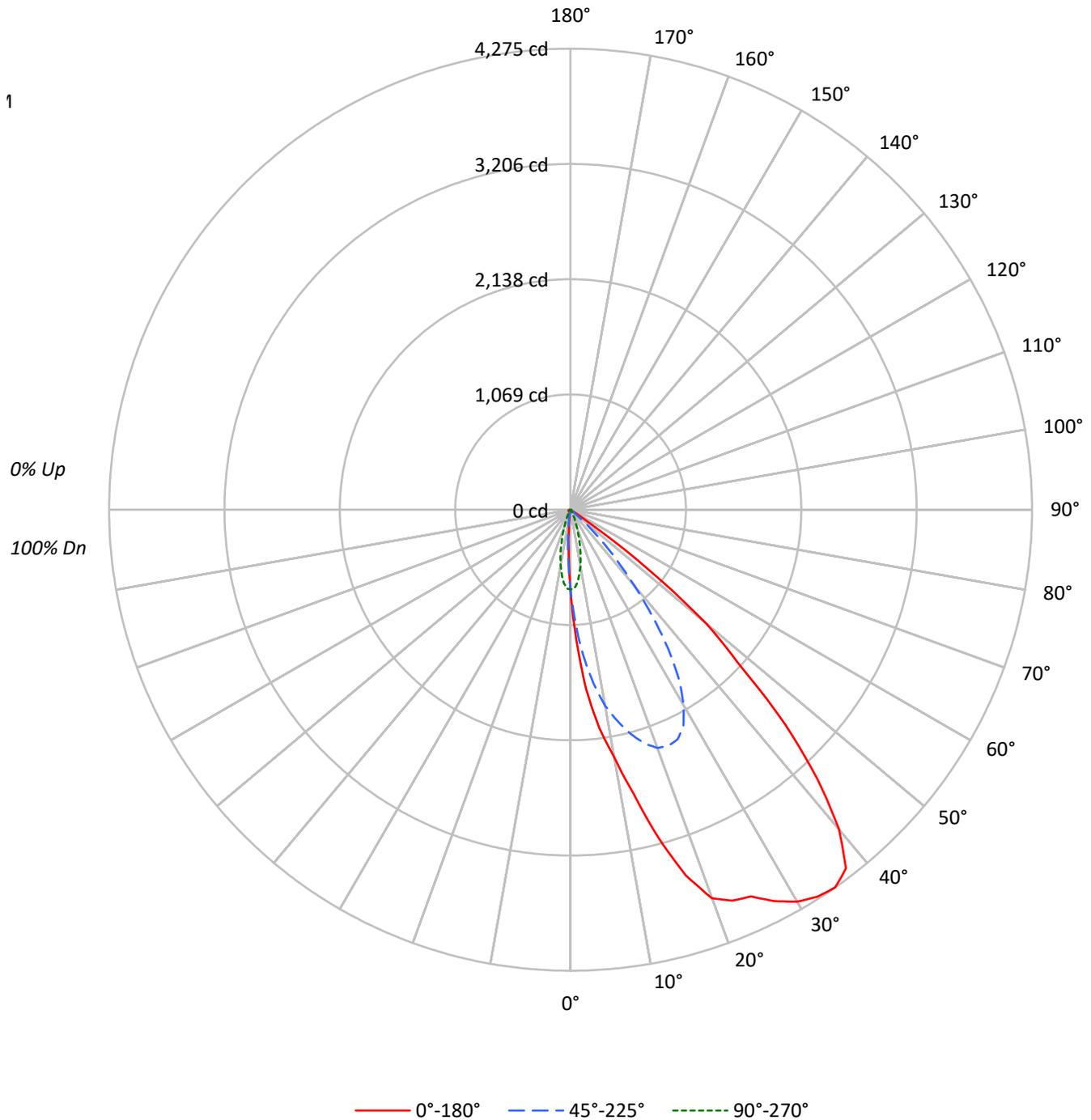
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1937.0 lumens
Efficiency: N/A
Efficacy: 70.7 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): 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	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°	126945	126945	126945	126945	126945
5°	289298	234685	118734	47611	32484
10°	407661	322390	91794	10475	4809
15°	561781	383572	58624	3459	2888
20°	702440	430789	30589	2383	2383
25°	751726	446050	14157	1843	2147
30°	834360	416544	6443	1929	2247
35°	898797	332061	2039	2039	2733
40°	869696	205778	1102	2540	3282
45°	682965	97058	1193	3166	3946
50°	438790	11280	1742	3912	5198
55°	66628	961	1952	4864	6336
60°	1102	1102	2239	5580	6682
65°	1304	1304	2649	5950	7906
70°	1611	1611	3273	6546	8963
75°	1065	2129	4325	7519	9715
80°	1587	3174	4860	8034	11207
85°	0	3162	6323	9683	9683

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 682965 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	4.2
10°-20°	291.6	15.1
20°-30°	512.4	26.5
30°-40°	581.8	30.0
40°-50°	376.7	19.4
50°-60°	73.9	3.8
60°-70°	9.0	0.5
70°-80°	7.5	0.4
80°-90°	3.4	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°	884.7	45.7
0°-40°	1466.5	75.7
0°-60°	1917.2	99.0
0°-90°	1937.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1937.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	737	737	737	737	737	
5°	1673	1358	687	275	188	178
15°	3151	2151	329	19	16	908
25°	3956	2347	74	10	11	1854
35°	4275	1579	10	10	13	2628
45°	2804	398	5	13	16	2114
55°	222	3	6	16	21	424
65°	3	3	6	15	19	3
75°	2	3	6	11	15	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°	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
2.5°	1197.1	1193.9	1198.7	1166.3	1164.7	1140.4	1133.9	1106.4	1069.2	1051.3	1009.2
5°	1673.4	1657.2	1657.2	1618.3	1605.3	1577.8	1530.8	1472.5	1423.9	1357.5	1286.2
7.5°	2041.1	2037.9	2037.9	2003.9	1971.5	1932.6	1869.4	1803.0	1725.2	1623.2	1519.5
10°	2331.1	2335.9	2321.4	2290.6	2243.6	2201.5	2127.0	2046.0	1950.4	1843.5	1705.8
12.5°	2697.2	2661.5	2650.2	2580.5	2520.6	2439.6	2350.5	2258.2	2139.9	2005.5	1850.0
15°	3150.8	3105.4	3060.0	2967.7	2867.3	2742.5	2603.2	2467.2	2314.9	2151.3	1956.9
17.5°	3555.7	3555.7	3495.8	3350.0	3220.4	3035.7	2847.8	2666.4	2486.6	2271.1	2028.1
20°	3832.7	3818.2	3772.8	3665.9	3518.5	3309.5	3064.9	2810.6	2593.5	2350.5	2068.6
22.5°	3923.5	3920.2	3921.8	3858.7	3740.4	3523.3	3223.7	2924.0	2651.8	2370.0	2049.2
25°	3955.9	3962.3	3978.5	3954.2	3865.1	3648.1	3320.9	2977.4	2669.6	2347.3	1974.7
27.5°	4090.3	4077.4	4095.2	4079.0	3978.5	3719.4	3340.3	2964.5	2630.8	2264.7	1841.9
30°	4195.6	4192.4	4223.2	4208.6	4077.4	3764.7	3322.5	2915.9	2535.2	2094.6	1632.9
32.5°	4255.6	4257.2	4265.3	4205.3	4010.9	3665.9	3235.0	2817.1	2355.4	1872.6	1360.7
35°	4275.0	4265.3	4219.9	4072.5	3806.8	3437.5	3019.5	2582.2	2110.8	1579.4	1075.6
37.5°	4190.8	4140.5	4023.9	3803.6	3495.8	3150.8	2744.2	2285.7	1775.4	1247.3	801.9
40°	3868.4	3802.0	3654.6	3429.4	3142.7	2809.0	2392.6	1913.1	1376.9	915.3	563.7
42.5°	3385.6	3351.6	3197.7	3001.7	2758.7	2421.8	1992.5	1506.5	1018.9	631.8	359.6
45°	2804.1	2760.4	2663.2	2489.8	2298.7	1945.5	1545.4	1078.9	694.9	398.5	178.2
47.5°	2102.7	2105.9	2039.5	1908.3	1720.4	1425.5	1057.8	724.1	435.8	205.7	40.5
50°	1637.7	1615.1	1521.1	1386.7	1168.0	949.3	683.6	456.8	230.0	42.1	3.2
52.5°	907.2	921.7	871.5	827.8	714.4	567.0	403.4	231.6	48.6	4.9	3.2
55°	221.9	234.9	225.2	230.0	238.1	212.2	163.6	45.4	4.9	3.2	3.2
57.5°	4.9	4.9	4.9	4.9	8.1	11.3	11.3	3.2	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	3.2	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
82.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.2
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°	737.1	737.1	737.1	737.1	737.1	737.1	737.1	737.1
2.5°	988.2	957.4	900.7	732.2	588.0	474.6	406.6	400.1
5°	1223.0	1140.4	1020.6	686.8	434.1	275.4	199.3	187.9
7.5°	1409.3	1292.7	1108.0	612.3	296.4	140.9	77.8	64.8
10°	1563.2	1398.0	1153.4	524.9	186.3	59.9	32.4	27.5
12.5°	1668.5	1469.3	1161.5	427.7	106.9	29.2	21.1	19.4
15°	1736.6	1492.0	1122.6	328.8	59.9	19.4	17.8	16.2
17.5°	1764.1	1472.5	1048.1	238.1	32.4	14.6	14.6	14.6
20°	1751.1	1409.3	937.9	166.9	21.1	13.0	13.0	13.0
22.5°	1689.6	1300.8	800.2	111.8	14.6	11.3	11.3	11.3
25°	1568.1	1153.4	654.5	74.5	9.7	9.7	11.3	11.3
27.5°	1386.7	972.0	500.6	50.2	8.1	9.7	11.3	11.3
30°	1158.2	769.5	359.6	32.4	8.1	9.7	9.7	11.3
32.5°	920.1	560.5	236.5	19.4	6.5	9.7	11.3	13.0
35°	667.4	382.3	150.7	9.7	8.1	9.7	11.3	13.0
37.5°	468.2	249.5	87.5	6.5	8.1	9.7	13.0	13.0
40°	304.5	139.3	32.4	4.9	8.1	11.3	13.0	14.6
42.5°	158.8	48.6	6.5	4.9	8.1	11.3	14.6	16.2
45°	40.5	6.5	1.6	4.9	9.7	13.0	16.2	16.2
47.5°	4.9	1.6	1.6	6.5	9.7	14.6	16.2	17.8
50°	1.6	3.2	3.2	6.5	9.7	14.6	17.8	19.4
52.5°	3.2	3.2	3.2	6.5	11.3	14.6	19.4	21.1
55°	3.2	3.2	3.2	6.5	11.3	16.2	19.4	21.1
57.5°	3.2	3.2	3.2	6.5	11.3	16.2	19.4	19.4
60°	3.2	3.2	3.2	6.5	11.3	16.2	19.4	19.4
62.5°	3.2	3.2	4.9	6.5	11.3	14.6	19.4	19.4
65°	3.2	4.9	4.9	6.5	11.3	14.6	17.8	19.4
67.5°	3.2	3.2	4.9	6.5	11.3	14.6	17.8	19.4
70°	3.2	3.2	4.9	6.5	9.7	13.0	16.2	17.8
72.5°	3.2	3.2	4.9	6.5	9.7	13.0	14.6	16.2
75°	3.2	3.2	4.9	6.5	8.1	11.3	14.6	14.6
77.5°	3.2	3.2	4.9	4.9	8.1	9.7	13.0	13.0
80°	3.2	3.2	4.9	4.9	6.5	8.1	9.7	11.3
82.5°	3.2	3.2	3.2	4.9	4.9	6.5	8.1	8.1
85°	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)