

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: P1312897

Luminaire Tested: LDSQA3D20R459050D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312897
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: LDSQA3D20R459050D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

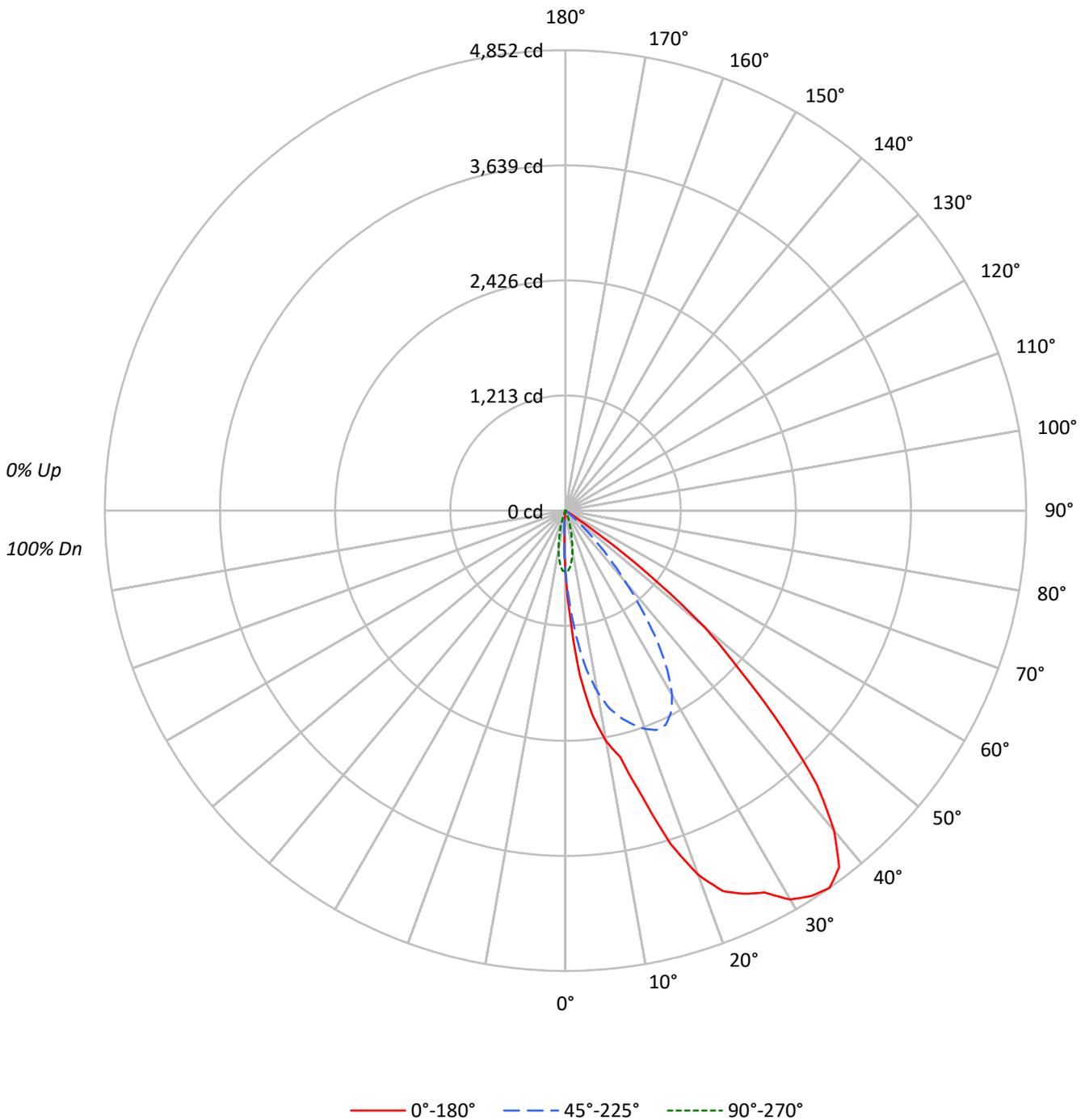
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2057.0 lumens
Efficiency: N/A
Efficacy: 71.4 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): 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				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
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67			67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	110016	110016	110016	110016	110016
5°	300363	231107	101827	20434	7659
10°	431393	339039	73624	1941	1609
15°	555380	403274	39172	660	0
20°	748534	448713	14882	0	0
25°	846626	474022	3858	0	0
30°	941092	446871	358	0	0
35°	1020172	356365	0	0	0
40°	988784	223742	0	0	0
45°	783848	106582	0	0	0
50°	513007	13370	0	0	0
55°	88157	0	0	0	0
60°	0	0	620	0	0
65°	0	734	734	0	0
70°	0	906	1863	0	0
75°	0	1198	2462	0	0
80°	0	1785	3670	1785	0
85°	0	3557	7311	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 783848 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	3.7
10°-20°	293.1	14.2
20°-30°	548.6	26.7
30°-40°	640.3	31.1
40°-50°	417.6	20.3
50°-60°	77.5	3.8
60°-70°	0.7	0.0
70°-80°	1.5	0.1
80°-90°	1.7	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°	917.7	44.6
0°-40°	1558.0	75.7
0°-60°	2053.1	99.8
0°-90°	2057.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2057.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	639	639	639	639	639	
5°	1737	1337	589	118	44	186
15°	3115	2262	220	4	0	928
25°	4455	2494	20	0	0	2060
35°	4852	1695	0	0	0	2976
45°	3218	438	0	0	0	2447
55°	294	0	0	0	0	510
65°	0	2	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	2	0	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°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	1126.3	1135.5	1117.1	1109.7	1085.7	1091.2	1050.6	1034.0	1008.1	965.7	945.3
5°	1737.4	1720.8	1706.1	1674.7	1656.2	1606.4	1551.0	1488.2	1412.5	1336.8	1250.0
7.5°	2173.2	2160.3	2154.7	2128.9	2092.0	2040.3	1968.2	1888.9	1791.0	1689.4	1558.3
10°	2466.8	2453.8	2431.7	2405.8	2376.3	2333.8	2263.7	2176.9	2069.8	1938.7	1785.5
12.5°	2658.8	2656.9	2620.0	2590.5	2553.6	2516.6	2444.6	2374.5	2269.2	2134.4	1960.9
15°	3114.9	3085.3	3037.3	2954.2	2850.8	2754.8	2638.5	2527.7	2413.2	2261.8	2068.0
17.5°	3683.5	3650.3	3569.1	3463.8	3297.6	3114.9	2915.4	2740.0	2568.3	2363.4	2134.4
20°	4084.2	4071.3	4003.0	3881.1	3703.9	3462.0	3199.8	2952.4	2710.5	2448.3	2165.8
22.5°	4340.9	4333.5	4305.8	4222.7	4041.7	3770.3	3432.4	3100.1	2808.4	2501.9	2156.6
25°	4455.3	4464.6	4468.3	4427.6	4281.8	4004.8	3604.1	3212.7	2863.7	2494.5	2086.4
27.5°	4536.6	4536.6	4551.3	4532.9	4385.2	4093.4	3670.6	3251.5	2845.3	2404.0	1938.7
30°	4732.3	4728.6	4737.8	4688.0	4483.0	4121.1	3641.1	3188.7	2740.0	2247.1	1726.4
32.5°	4817.2	4820.9	4819.1	4739.7	4501.5	4102.7	3569.1	3068.7	2546.2	2001.5	1445.7
35°	4852.3	4835.7	4767.4	4586.4	4285.5	3857.1	3366.0	2865.6	2274.7	1695.0	1141.1
37.5°	4736.0	4688.0	4536.6	4289.2	3921.7	3510.0	3029.9	2501.9	1914.7	1329.4	858.6
40°	4398.1	4335.3	4145.1	3846.0	3510.0	3138.9	2632.9	2075.3	1497.4	995.2	601.9
42.5°	3919.9	3847.9	3642.9	3382.6	3076.1	2686.5	2182.4	1624.8	1096.8	686.9	382.2
45°	3218.3	3177.6	3059.5	2839.7	2538.8	2134.4	1672.8	1185.4	758.9	437.6	195.7
47.5°	2488.9	2437.2	2352.3	2200.9	1949.8	1565.7	1170.6	805.0	487.4	216.0	40.6
50°	1914.7	1853.8	1750.4	1582.4	1320.2	1045.1	758.9	502.2	247.4	49.9	1.8
52.5°	1102.3	1115.2	1065.4	958.3	812.4	625.9	439.4	253.0	55.4	1.8	0.0
55°	293.6	317.6	310.2	334.2	293.6	247.4	182.8	48.0	3.7	0.0	0.0
57.5°	0.0	0.0	1.8	3.7	11.1	16.6	5.5	1.8	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	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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°	638.8	638.8	638.8	638.8	638.8	638.8	638.8	638.8
2.5°	899.2	860.4	812.4	635.2	478.2	343.4	267.7	247.4
5°	1166.9	1072.8	950.9	589.0	295.4	118.2	53.5	44.3
7.5°	1419.9	1281.4	1061.7	515.1	149.6	29.5	14.8	12.9
10°	1615.6	1429.1	1142.9	421.0	55.4	11.1	9.2	9.2
12.5°	1750.4	1523.3	1172.5	319.4	20.3	5.5	5.5	3.7
15°	1827.9	1560.2	1144.8	219.7	7.4	3.7	0.0	0.0
17.5°	1851.9	1545.4	1070.9	138.5	1.8	0.0	0.0	0.0
20°	1831.6	1473.4	954.6	81.2	0.0	0.0	0.0	0.0
22.5°	1765.1	1360.8	814.3	44.3	0.0	0.0	0.0	0.0
25°	1641.4	1202.0	649.9	20.3	0.0	0.0	0.0	0.0
27.5°	1440.2	997.0	489.3	7.4	0.0	0.0	0.0	0.0
30°	1211.2	777.3	347.1	1.8	0.0	0.0	0.0	0.0
32.5°	945.3	572.4	223.4	0.0	0.0	0.0	0.0	0.0
35°	710.9	400.7	132.9	0.0	0.0	0.0	0.0	0.0
37.5°	494.8	253.0	70.2	0.0	0.0	0.0	0.0	0.0
40°	308.3	136.6	24.0	0.0	0.0	0.0	0.0	0.0
42.5°	171.7	48.0	1.8	0.0	0.0	0.0	0.0	0.0
45°	40.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.8	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	1.8	0.0	0.0	0.0	0.0
60°	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0
62.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
65°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
67.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
70°	1.8	1.8	1.8	3.7	1.8	0.0	0.0	0.0
72.5°	1.8	1.8	3.7	3.7	1.8	0.0	0.0	0.0
75°	1.8	1.8	3.7	3.7	1.8	0.0	0.0	0.0
77.5°	1.8	3.7	3.7	3.7	1.8	1.8	0.0	0.0
80°	1.8	3.7	3.7	3.7	3.7	1.8	0.0	0.0
82.5°	1.8	3.7	3.7	3.7	3.7	1.8	0.0	0.0
85°	1.8	3.7	3.7	3.7	1.8	1.8	0.0	0.0
87.5°	1.8	3.7	3.7	3.7	3.7	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)