

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: P1312742

Luminaire Tested: LDSQA3D17R409050DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409050DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

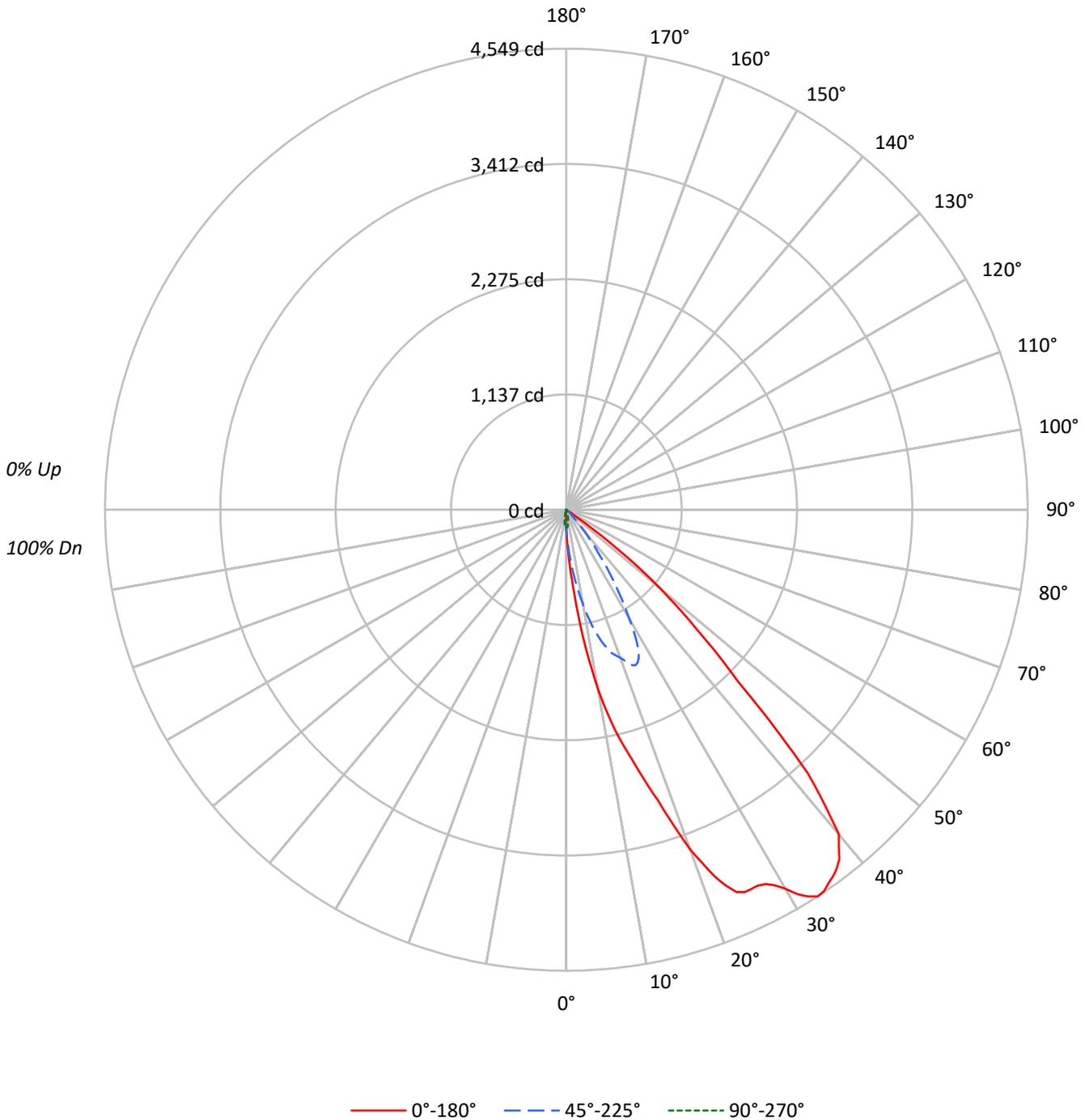
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1527.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	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	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	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	30759	30759	30759	30759	30759
5°	130559	88982	26987	4858	2438
10°	313804	165506	16718	490	0
15°	461863	240453	7025	0	0
20°	652846	285048	2584	0	0
25°	790739	316394	0	0	0
30°	858562	247508	0	0	0
35°	946712	144880	0	0	0
40°	939638	58813	0	0	0
45°	581937	17122	0	0	0
50°	324036	375	0	0	0
55°	31678	0	0	0	0
60°	0	0	482	0	0
65°	0	0	571	0	0
70°	0	705	1410	0	0
75°	0	932	1863	0	0
80°	0	1389	2777	0	0
85°	0	2766	5533	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°
 Vertical Angle: 45°
 Luminance: 584665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	2.2
10°-20°	196.8	12.9
20°-30°	449.3	29.4
30°-40°	530.5	34.7
40°-50°	283.4	18.6
50°-60°	30.8	2.0
60°-70°	0.6	0.0
70°-80°	1.1	0.1
80°-90°	1.0	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°	679.6	44.5
0°-40°	1210.1	79.2
0°-60°	1524.3	99.8
0°-90°	1527.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1527.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	179	179	179	179	179	
5°	755	515	156	28	14	106
15°	2590	1349	39	0	0	769
25°	4161	1665	0	0	0	1889
35°	4503	689	0	0	0	2781
45°	2389	70	0	0	0	1970
55°	106	0	0	0	0	296
65°	0	0	1	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6	178.6
2.5°	416.3	407.8	413.4	402.2	402.2	376.9	378.3	357.2	326.3	248.9	177.2
5°	755.2	788.9	762.2	727.0	707.4	682.0	648.3	613.1	514.7	310.8	156.1
7.5°	1264.2	1261.4	1216.4	1178.5	1134.9	1067.4	1004.1	918.3	732.7	355.8	129.4
10°	1794.4	1784.6	1733.9	1701.6	1618.6	1521.6	1392.2	1254.4	946.4	371.3	95.6
12.5°	2236.0	2223.3	2181.1	2126.3	2034.9	1912.5	1773.3	1591.9	1171.4	354.4	61.9
15°	2590.4	2587.6	2546.8	2472.2	2376.6	2257.1	2099.6	1881.6	1348.6	310.8	39.4
17.5°	3010.8	3027.7	2954.6	2874.4	2736.6	2569.3	2376.6	2127.7	1479.4	257.3	25.3
20°	3562.1	3538.2	3470.7	3354.0	3221.8	3020.7	2747.9	2392.1	1555.3	199.7	14.1
21°	3730.9	3721.0	3650.7	3542.4	3396.2	3192.3	2911.0	2527.1	1590.5	178.6	11.3
22°	3902.4	3885.6	3830.7	3725.2	3587.4	3356.8	3047.4	2666.3	1635.5	156.1	7.0
23°	4030.4	4023.4	3981.2	3877.1	3735.1	3511.5	3195.1	2795.7	1666.4	135.0	4.2
24°	4128.8	4120.4	4078.2	3999.5	3877.1	3643.7	3344.1	2934.9	1679.1	116.7	1.4
25°	4161.2	4165.4	4140.1	4078.2	3975.6	3742.1	3455.2	3044.6	1665.0	99.8	0.0
26°	4162.6	4175.2	4157.0	4121.8	4037.4	3820.9	3559.3	3109.3	1628.5	84.4	0.0
27°	4162.6	4175.2	4157.0	4130.2	4047.3	3865.9	3615.5	3116.3	1572.2	71.7	0.0
28°	4182.3	4189.3	4165.4	4133.1	4043.1	3879.9	3631.0	3074.1	1482.2	61.9	0.0
29°	4237.1	4230.1	4190.7	4147.1	4038.8	3879.9	3584.6	2994.0	1369.7	52.0	0.0
30°	4317.3	4317.3	4255.4	4186.5	4058.5	3878.5	3510.1	2849.1	1244.6	42.2	0.0
31°	4425.6	4415.7	4353.8	4251.2	4100.7	3878.5	3400.4	2688.8	1129.2	36.6	0.0
32°	4498.7	4493.1	4434.0	4313.1	4169.6	3878.5	3282.3	2511.6	1004.1	29.5	0.0
33°	4549.3	4538.1	4470.6	4345.4	4211.8	3858.8	3150.1	2321.8	891.6	23.9	0.0
34°	4542.3	4539.5	4469.2	4339.8	4203.4	3777.3	2996.8	2110.8	787.5	19.7	0.0
35°	4502.9	4502.9	4417.1	4283.5	4142.9	3657.7	2844.9	1930.8	689.1	14.1	0.0
36°	4473.4	4462.1	4365.1	4216.0	4041.7	3469.3	2619.9	1749.4	583.6	11.3	0.0
37°	4429.8	4408.7	4300.4	4140.1	3898.2	3265.4	2383.6	1587.7	493.6	7.0	0.0
38°	4373.5	4341.2	4209.0	4051.5	3740.7	3030.5	2143.2	1406.3	410.6	4.2	0.0
39°	4270.9	4244.2	4107.7	3937.6	3552.3	2783.0	1909.7	1236.1	331.9	1.4	0.0
40°	4179.5	4133.1	3978.4	3782.9	3331.5	2503.2	1677.7	1068.8	261.6	0.0	0.0
42.5°	3524.1	3474.9	3439.8	3245.7	2653.7	1797.2	1171.4	684.9	136.4	0.0	0.0
45°	2389.3	2400.5	2290.8	2160.0	1750.8	1171.4	732.7	381.1	70.3	0.0	0.0
47.5°	1742.4	1712.8	1563.8	1316.3	1026.6	684.9	382.5	184.2	28.1	0.0	0.0
50°	1209.4	1153.2	1018.1	832.5	558.3	326.3	168.8	85.8	1.4	0.0	0.0
52.5°	656.7	617.4	523.1	379.7	232.0	125.2	67.5	35.2	0.0	0.0	0.0
55°	105.5	73.1	75.9	64.7	50.6	36.6	21.1	4.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0	0.0	1.4	1.4
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	2.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8	2.8
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):

	112.5°	135°	157.5°	180°
0°	178.6	178.6	178.6	178.6
2.5°	119.5	81.6	61.9	53.4
5°	68.9	28.1	15.5	14.1
7.5°	33.8	9.8	5.6	5.6
10°	14.1	2.8	0.0	0.0
12.5°	4.2	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.4	0.0	0.0	0.0
67.5°	1.4	0.0	0.0	0.0
70°	1.4	0.0	0.0	0.0
72.5°	1.4	0.0	0.0	0.0
75°	1.4	0.0	0.0	0.0
77.5°	1.4	0.0	0.0	0.0
80°	1.4	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.4	0.0	0.0	0.0
85°	1.4	0.0	0.0	0.0
87.5°	1.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)