

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: P1312744

Luminaire Tested: LDSQA3D17R409050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312744
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R409050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

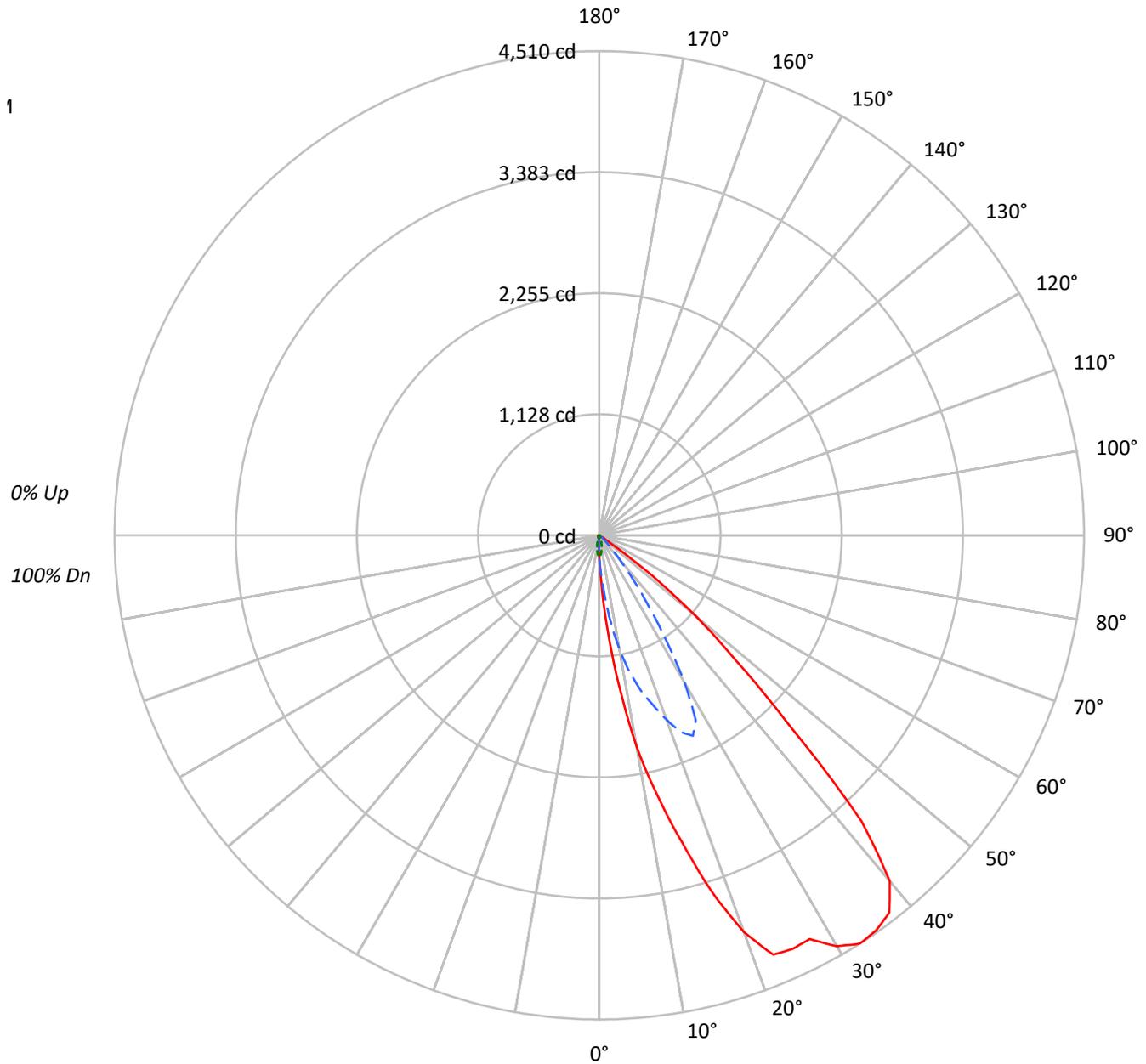
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1663.9 lumens
Efficiency: N/A
Efficacy: 78.5 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24
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



— 0°-180° - - 45°-225° - - - 90°-270°



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33911	33911	33911	33911	33911
5°	152930	97505	30392	11669	8506
10°	350721	188398	21405	4180	3200
15°	526336	267304	13283	2264	2015
20°	720676	335083	7734	1283	1540
25°	807898	391531	4010	1064	1330
30°	878767	316037	1670	835	1392
35°	944421	161741	589	1177	1766
40°	944764	64501	315	1259	2203
45°	603200	21579	682	2046	3093
50°	313131	2626	1125	2626	3778
55°	27023	420	1261	3393	4654
60°	964	482	1447	3892	5339
65°	1141	571	2282	3994	5746
70°	705	705	2820	4230	5690
75°	932	932	2795	4658	6521
80°	1389	1389	4166	4166	5554
85°	0	2766	8299	5533	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 603200 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.3	2.3
10°-20°	225.2	13.5
20°-30°	493.2	29.6
30°-40°	561.9	33.8
40°-50°	296.5	17.8
50°-60°	35.0	2.1
60°-70°	6.3	0.4
70°-80°	5.1	0.3
80°-90°	2.3	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°	756.8	45.5
0°-40°	1318.7	79.3
0°-60°	1650.2	99.2
0°-90°	1663.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1663.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	197	197	197	197	197	
5°	885	564	176	68	49	119
15°	2952	1499	74	13	11	870
25°	4252	2060	21	6	7	1959
35°	4492	769	3	6	8	2784
45°	2477	89	3	8	13	1997
55°	90	1	4	11	16	279
65°	3	1	6	10	14	3
75°	1	1	4	7	10	1
85°	0	1	4	3	3	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9	196.9
2.5°	438.8	438.8	437.4	424.7	423.3	421.9	399.4	393.8	367.1	348.8	265.8
5°	884.6	864.9	863.5	841.0	803.0	752.4	720.1	668.0	617.4	564.0	327.7
7.5°	1409.2	1426.1	1379.7	1355.8	1271.4	1210.9	1118.1	1036.5	922.6	815.7	378.3
10°	2005.5	1976.0	1929.6	1883.1	1791.7	1683.4	1545.6	1400.8	1236.2	1077.3	406.4
12.5°	2471.0	2433.0	2404.9	2341.6	2251.6	2112.4	1947.8	1753.8	1535.8	1306.5	405.0
15°	2952.0	2914.0	2850.7	2794.5	2660.9	2504.8	2326.2	2070.2	1803.0	1499.2	375.5
17.5°	3480.8	3431.6	3361.3	3275.5	3146.1	2973.1	2746.7	2434.4	2056.1	1656.7	322.1
20°	3932.2	3902.7	3832.4	3731.1	3604.6	3435.8	3174.2	2828.2	2366.9	1828.3	256.0
22.5°	4227.6	4200.9	4153.0	4064.4	3968.8	3788.8	3549.7	3170.0	2627.1	1984.4	194.1
25°	4251.5	4240.2	4227.6	4198.1	4140.4	4012.4	3779.0	3369.7	2788.9	2060.4	143.5
27.5°	4238.8	4234.6	4231.8	4216.3	4178.4	4051.8	3812.7	3399.2	2767.8	1942.2	105.5
30°	4418.9	4406.2	4399.2	4348.5	4248.7	4053.2	3741.0	3240.3	2459.8	1589.2	75.9
32.5°	4510.3	4507.5	4500.4	4451.2	4310.6	4056.0	3620.0	2856.4	1950.7	1147.6	52.0
35°	4492.0	4477.9	4452.6	4361.2	4165.7	3846.5	3229.1	2281.2	1407.8	769.3	33.8
37.5°	4430.1	4397.8	4348.5	4184.0	3923.8	3487.8	2618.7	1679.2	957.7	497.9	19.7
40°	4202.3	4158.7	4081.3	3880.2	3538.5	2874.6	1936.6	1135.0	628.7	286.9	5.6
42.5°	3613.0	3556.7	3500.5	3275.5	2884.5	2143.3	1274.2	701.8	358.6	157.5	1.4
45°	2476.6	2406.3	2329.0	2165.8	1852.2	1298.1	758.0	395.2	185.6	88.6	1.4
47.5°	1720.0	1687.7	1552.6	1344.5	1030.9	687.7	392.4	194.1	98.4	40.8	1.4
50°	1168.7	1132.1	974.6	773.5	548.5	329.1	180.0	97.0	43.6	9.8	1.4
52.5°	613.2	568.2	468.3	357.2	222.2	137.8	78.8	42.2	12.7	1.4	1.4
55°	90.0	83.0	67.5	54.8	49.2	38.0	22.5	9.8	1.4	1.4	2.8
57.5°	2.8	2.8	2.8	2.8	4.2	4.2	2.8	1.4	1.4	1.4	2.8
60°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
65°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	4.2
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.2
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	4.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	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):

	90°	112.5°	135°	157.5°	180°
0°	196.9	196.9	196.9	196.9	196.9
2.5°	194.1	143.5	111.1	95.6	94.2
5°	175.8	102.7	67.5	52.0	49.2
7.5°	149.1	71.7	39.4	28.1	26.7
10°	122.4	49.2	23.9	19.7	18.3
12.5°	97.0	32.3	16.9	15.5	14.1
15°	74.5	21.1	12.7	11.3	11.3
17.5°	56.3	14.1	9.8	9.8	9.8
20°	42.2	9.8	7.0	8.4	8.4
22.5°	29.5	7.0	5.6	7.0	7.0
25°	21.1	5.6	5.6	7.0	7.0
27.5°	14.1	4.2	4.2	5.6	7.0
30°	8.4	2.8	4.2	5.6	7.0
32.5°	4.2	2.8	4.2	7.0	7.0
35°	2.8	4.2	5.6	7.0	8.4
37.5°	1.4	4.2	5.6	8.4	8.4
40°	1.4	4.2	5.6	8.4	9.8
42.5°	2.8	5.6	7.0	9.8	11.3
45°	2.8	5.6	8.4	11.3	12.7
47.5°	2.8	5.6	9.8	12.7	12.7
50°	4.2	7.0	9.8	12.7	14.1
52.5°	4.2	7.0	9.8	14.1	15.5
55°	4.2	7.0	11.3	14.1	15.5
57.5°	4.2	8.4	11.3	14.1	15.5
60°	4.2	7.0	11.3	14.1	15.5
62.5°	5.6	7.0	9.8	14.1	14.1
65°	5.6	7.0	9.8	14.1	14.1
67.5°	5.6	7.0	9.8	12.7	12.7
70°	5.6	7.0	8.4	11.3	11.3
72.5°	5.6	7.0	8.4	9.8	11.3
75°	4.2	5.6	7.0	8.4	9.8
77.5°	4.2	5.6	5.6	8.4	8.4
80°	4.2	4.2	4.2	5.6	5.6
82.5°	4.2	4.2	2.8	4.2	4.2
85°	4.2	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)