

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: P1316890

Luminaire Tested: LDSQA3D20R309740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R309740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R30 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

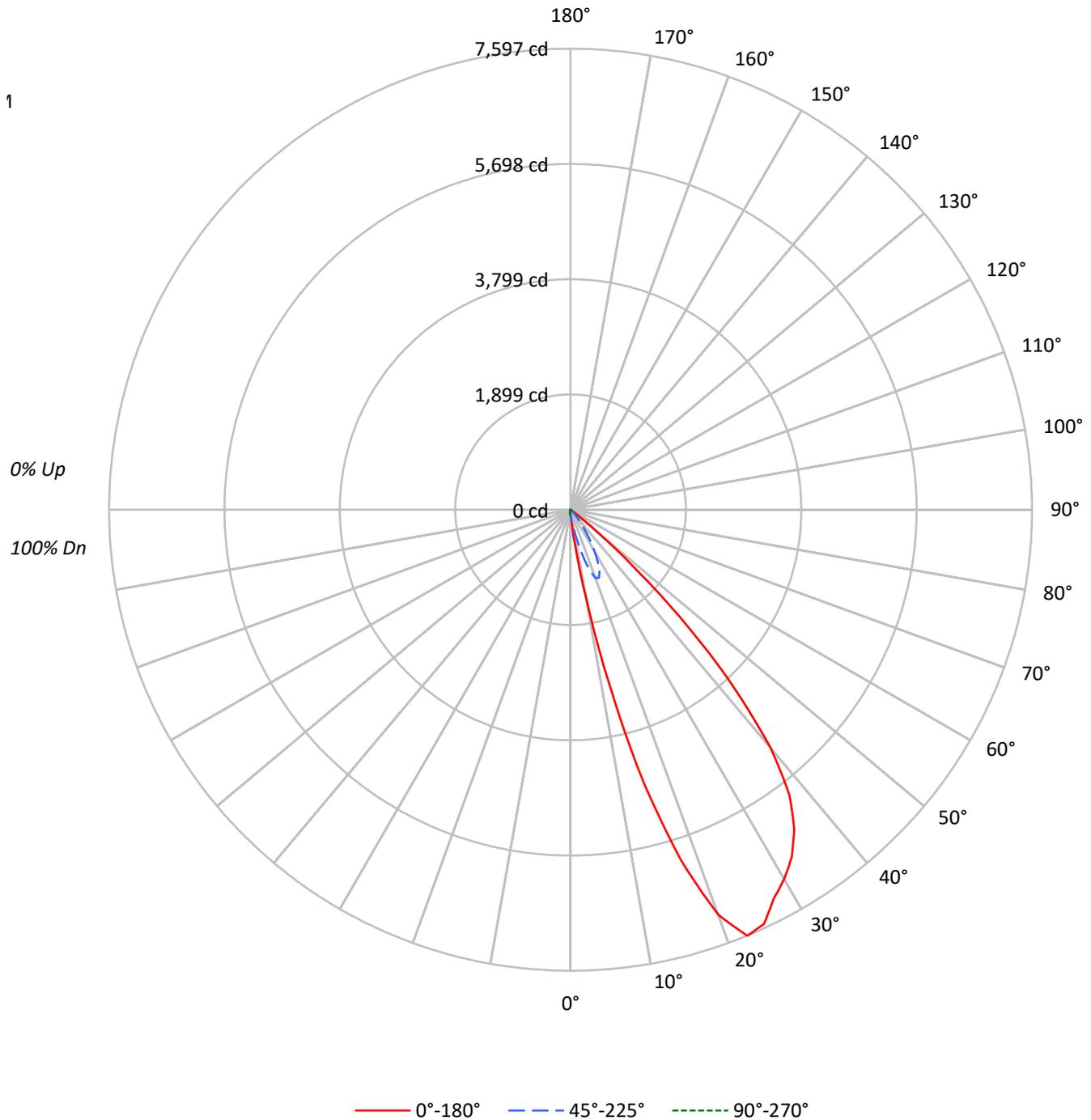
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1791.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28
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				
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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	52	46	43	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°	14656	14656	14656	14656	14656
5°	44136	29424	13865	6224	5100
10°	255586	62397	10878	2868	2011
15°	831332	141515	7595	588	285
20°	1300853	218959	4802	0	0
25°	1431186	213970	2489	0	0
30°	1397826	154260	974	0	0
35°	1349142	87735	336	0	0
40°	1150520	37163	0	0	0
45°	675220	13956	390	0	390
50°	164000	2626	429	429	1313
55°	14262	0	991	1471	1952
60°	551	0	1137	1688	2824
65°	652	652	1997	1997	3342
70°	806	806	2467	2467	3273
75°	0	1065	3261	3261	3261
80°	0	1587	4860	3273	3273
85°	0	3162	9683	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 675220 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.6	0.9
10°-20°	246.2	13.7
20°-30°	625.5	34.9
30°-40°	623.5	34.8
40°-50°	252.6	14.1
50°-60°	17.4	1.0
60°-70°	3.9	0.2
70°-80°	3.9	0.2
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°	887.3	49.5
0°-40°	1510.8	84.4
0°-60°	1780.8	99.4
0°-90°	1791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1791.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	255	170	80	36	30	59
15°	4663	794	43	3	2	1357
25°	7532	1126	13	0	0	3401
35°	6417	417	2	0	0	3933
45°	2772	57	2	0	2	2115
55°	48	0	3	5	6	124
65°	2	2	5	5	8	2
75°	0	2	5	5	5	1
85°	0	2	5	2	2	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°	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2.5°	140.7	142.4	142.4	139.1	137.5	137.5	132.6	130.9	126.0	121.1	104.7
5°	255.3	250.4	243.8	243.8	229.1	220.9	209.5	196.4	186.6	170.2	121.1
7.5°	579.3	540.1	528.6	513.9	458.2	414.1	363.3	319.1	278.2	243.8	134.2
10°	1461.5	1384.5	1320.7	1191.4	1029.4	873.9	729.9	563.0	448.4	356.8	144.0
12.5°	2944.2	2841.1	2718.3	2482.7	2179.9	1792.0	1448.4	1081.8	759.4	525.3	147.3
15°	4662.6	4487.5	4296.0	3996.5	3500.6	2944.2	2323.9	1739.7	1219.2	793.7	144.0
17.5°	6063.5	5994.7	5711.6	5302.5	4695.3	3978.5	3214.2	2415.6	1644.7	1039.2	134.2
20°	7097.8	7050.3	6708.3	6272.9	5588.9	4767.3	3796.8	2837.8	1941.0	1194.7	119.5
22.5°	7596.9	7588.7	7341.6	6896.5	6171.5	5240.3	4171.6	3081.6	2032.6	1216.0	99.8
25°	7531.5	7560.9	7420.2	7089.6	6394.1	5435.0	4282.9	3081.6	1965.5	1126.0	83.5
27.5°	7233.6	7253.3	7164.9	6911.2	6263.1	5294.3	4127.4	2883.6	1770.8	967.2	68.7
30°	7029.0	7037.2	6927.6	6655.9	5968.5	4973.5	3760.8	2517.0	1476.2	775.7	50.7
32.5°	6780.3	6778.6	6651.0	6340.0	5582.3	4523.5	3296.0	2080.1	1134.1	589.2	29.5
35°	6417.0	6376.1	6202.6	5844.2	5006.2	3917.9	2702.0	1584.2	816.6	417.3	18.0
37.5°	5917.8	5811.4	5566.0	5086.4	4197.8	3071.8	2003.2	1112.9	558.1	276.6	11.5
40°	5117.5	5004.6	4670.8	4088.1	3174.9	2211.0	1350.2	725.0	351.9	165.3	6.5
42.5°	4012.9	3935.9	3485.9	2904.9	2096.4	1410.7	811.7	428.8	198.0	94.9	1.6
45°	2772.3	2672.5	2319.0	1826.4	1258.5	782.3	455.0	224.2	112.9	57.3	0.0
47.5°	1530.2	1407.4	1202.9	945.9	633.4	410.8	229.1	121.1	63.8	27.8	0.0
50°	612.1	607.2	482.8	343.7	242.2	186.6	114.6	65.5	32.7	9.8	1.6
52.5°	214.4	214.4	184.9	150.6	117.8	85.1	57.3	31.1	11.5	3.3	1.6
55°	47.5	52.4	49.1	45.8	44.2	37.6	24.5	11.5	3.3	0.0	1.6
57.5°	4.9	4.9	4.9	6.5	8.2	8.2	6.5	3.3	0.0	0.0	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	3.3
62.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0	1.6	1.6	3.3
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	4.9
75°	0.0	0.0	1.6	1.6	0.0	1.6	1.6	1.6	1.6	1.6	4.9
77.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	3.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	3.3
82.5°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	3.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.3
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°	85.1	85.1	85.1	85.1	85.1
2.5°	85.1	67.1	55.6	49.1	47.5
5°	80.2	50.7	36.0	31.1	29.5
7.5°	72.0	37.6	24.5	19.6	18.0
10°	62.2	27.8	16.4	11.5	11.5
12.5°	52.4	21.3	9.8	4.9	3.3
15°	42.6	13.1	3.3	1.6	1.6
17.5°	32.7	8.2	0.0	0.0	0.0
20°	26.2	3.3	0.0	0.0	0.0
22.5°	19.6	1.6	0.0	0.0	0.0
25°	13.1	0.0	0.0	0.0	0.0
27.5°	8.2	0.0	0.0	0.0	0.0
30°	4.9	0.0	0.0	0.0	0.0
32.5°	1.6	0.0	0.0	0.0	0.0
35°	1.6	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.6	0.0	0.0	1.6	1.6
47.5°	1.6	1.6	1.6	3.3	3.3
50°	1.6	1.6	1.6	3.3	4.9
52.5°	3.3	1.6	3.3	4.9	4.9
55°	3.3	3.3	4.9	6.5	6.5
57.5°	3.3	3.3	4.9	6.5	6.5
60°	3.3	3.3	4.9	6.5	8.2
62.5°	4.9	4.9	4.9	6.5	6.5
65°	4.9	4.9	4.9	6.5	8.2
67.5°	4.9	4.9	4.9	6.5	8.2
70°	4.9	4.9	4.9	6.5	6.5
72.5°	6.5	4.9	4.9	6.5	6.5
75°	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	3.3	4.9	4.9
80°	4.9	3.3	3.3	3.3	3.3
82.5°	4.9	3.3	3.3	3.3	3.3
85°	4.9	3.3	1.6	1.6	1.6
87.5°	4.9	3.3	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)