

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: P1312291

Luminaire Tested: LDSQA3D05R509050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R509050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

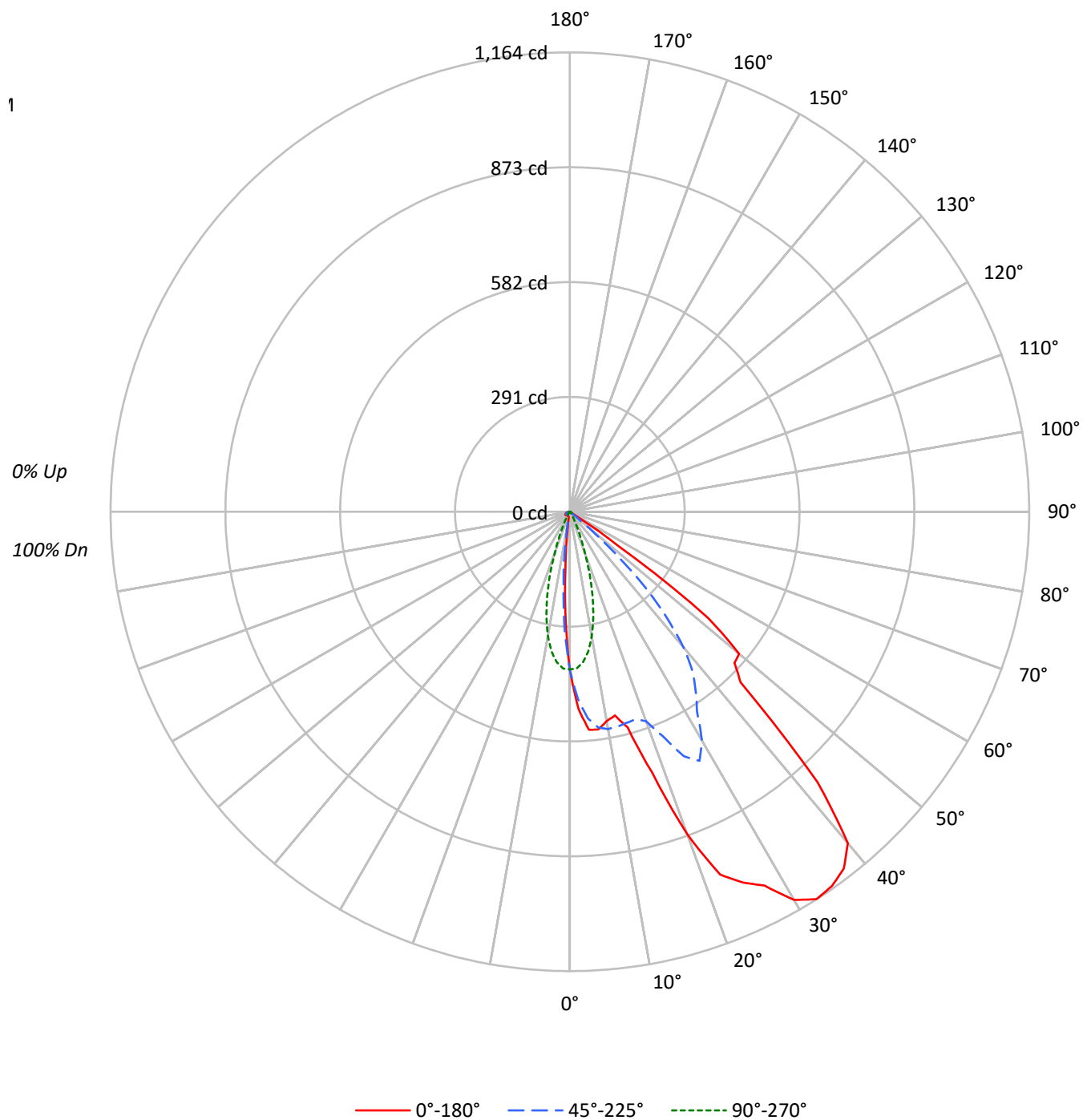
Lumens per Lamp: N/A
Luminaire Lumens: 621.0 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

TEST NUMBER: P1312291

CATALOG NUMBER: LDSQA3D05R509050DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot



TEST NUMBER: P1312291

CATALOG NUMBER: LDSQA3D05R509050DE010 3LSQCA30R 1MW

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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		
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73		
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65		
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58		
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53		
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47		
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39		
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	68769	68769	68769	68769	68769
5°	95880	90952	66092	31775	20607
10°	94120	97758	55856	6698	2868
15°	100934	98777	39493	2336	2247
20°	159376	103441	20857	1998	2108
25°	196944	129902	8323	1862	2071
30°	225792	133240	3381	1849	2168
35°	243422	116938	1493	1955	2418
40°	246403	100697	1102	2203	2698
45°	148937	65274	1072	2387	3069
50°	150041	11280	1179	2786	3510
55°	44349	661	1321	3123	3933
60°	758	758	1309	3376	4340
65°	652	652	1345	3586	4686
70°	806	806	1360	3877	5237
75°	732	732	1464	3993	5456
80°	496	1091	1587	3769	5951
85°	988	2174	2174	4347	5335

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 170102 cd/sqm

TEST NUMBER: P1312291

CATALOG NUMBER: LDSQA3D05R509050DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	5.2
10°-20°	80.2	12.9
20°-30°	150.2	24.2
30°-40°	179.6	28.9
40°-50°	128.7	20.7
50°-60°	39.7	6.4
60°-70°	5.2	0.8
70°-80°	3.8	0.6
80°-90°	1.5	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°	262.6	42.3
0°-40°	442.2	71.2
0°-60°	610.5	98.3
0°-90°	621.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	621.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	399	399	399	399	399	
5°	555	526	382	184	119	52
15°	566	554	222	13	13	181
25°	1036	684	44	10	11	478
35°	1158	556	7	9	12	718
45°	612	268	4	10	13	562
55°	148	2	4	10	13	190
65°	2	2	3	9	12	2
75°	1	1	2	6	8	1
85°	0	1	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1312291

CATALOG NUMBER: LDSQA3D05R509050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3
2.5°	499.3	500.4	502.1	497.7	495.0	492.8	488.9	487.9	478.6	474.7	470.9
5°	554.6	553.5	554.6	552.9	551.8	548.6	545.3	539.8	533.8	526.1	517.4
7.5°	556.2	555.1	557.3	557.3	559.5	559.5	559.5	560.0	556.8	551.3	543.6
10°	538.2	538.2	540.4	539.3	543.1	544.7	548.6	555.1	558.4	559.0	556.8
12.5°	528.9	528.9	529.4	527.2	528.3	530.0	534.3	542.0	549.7	557.3	561.7
15°	566.1	567.2	559.5	548.6	540.4	531.6	528.9	533.8	542.0	554.0	563.9
17.5°	692.4	694.0	685.8	659.6	634.4	598.3	566.1	550.2	541.4	551.3	564.4
20°	869.6	863.6	849.4	821.5	784.8	729.0	678.7	627.9	579.2	564.4	568.8
22.5°	994.8	992.7	981.2	950.0	918.3	866.3	802.3	731.2	660.7	615.8	592.3
25°	1036.4	1034.8	1024.4	1005.8	988.3	948.9	891.5	819.8	746.0	683.6	624.6
27.5°	1067.6	1065.4	1049.0	1028.2	1010.2	970.2	917.7	863.6	795.8	711.5	620.8
30°	1135.4	1129.4	1106.4	1069.2	1034.8	979.5	921.6	854.3	762.4	670.0	581.4
32.5°	1163.8	1160.6	1140.9	1110.8	1073.1	1000.9	912.8	800.1	679.3	599.4	534.9
35°	1157.8	1152.9	1132.7	1098.2	1052.3	982.8	865.2	710.4	612.0	556.2	483.5
37.5°	1139.8	1132.7	1108.6	1068.1	1012.3	921.6	767.9	637.7	574.3	511.4	413.5
40°	1096.0	1084.5	1056.6	1014.5	958.7	839.5	679.3	594.0	534.9	447.9	335.3
42.5°	928.7	922.7	936.3	929.2	880.0	739.4	616.4	554.0	472.5	362.1	242.8
45°	611.5	621.8	646.5	688.6	698.4	636.1	565.0	488.4	388.9	268.0	140.0
47.5°	566.1	563.9	569.9	578.1	579.7	553.5	488.9	403.6	288.8	153.1	38.8
50°	560.0	556.8	551.8	542.0	521.2	470.3	397.1	294.2	166.8	42.1	2.7
52.5°	442.5	439.2	439.2	425.0	398.2	348.9	274.0	161.9	46.5	2.7	2.2
55°	147.7	157.5	155.9	155.3	167.4	154.2	118.1	41.6	3.8	2.2	2.2
57.5°	2.7	2.7	2.7	4.9	7.7	10.9	6.6	3.3	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6
77.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1312291

CATALOG NUMBER: LDSQA3D05R509050DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	399.3	399.3	399.3	399.3	399.3	399.3	399.3	399.3
2.5°	462.1	454.5	439.7	397.6	351.1	298.1	262.0	257.6
5°	503.7	492.2	468.2	382.3	276.2	183.8	136.7	119.2
7.5°	531.1	515.7	486.2	357.1	201.3	96.8	52.0	41.6
10°	547.5	533.2	495.5	319.4	128.0	38.3	17.5	16.4
12.5°	556.2	542.5	498.8	274.0	72.2	17.5	13.7	13.7
15°	562.2	547.5	493.9	221.5	36.1	13.1	12.6	12.6
17.5°	565.0	546.9	479.6	166.8	19.1	12.0	12.0	12.0
20°	566.6	540.9	453.4	113.8	13.1	10.9	11.5	11.5
22.5°	568.2	526.1	418.9	72.2	10.4	10.4	10.9	10.9
25°	565.0	500.4	370.3	43.8	9.3	9.8	10.4	10.9
27.5°	541.4	461.6	311.2	26.8	8.2	9.3	10.4	10.9
30°	501.0	404.7	242.8	17.0	7.7	9.3	10.4	10.9
32.5°	448.5	339.6	173.4	10.4	7.7	9.3	10.4	10.9
35°	377.9	259.8	112.7	7.1	7.7	9.3	10.9	11.5
37.5°	298.6	181.6	60.7	5.5	7.7	9.3	10.9	11.5
40°	214.9	108.8	21.9	4.9	7.1	9.8	11.5	12.0
42.5°	125.8	40.5	3.8	4.4	7.1	9.8	11.5	12.0
45°	36.1	4.4	2.2	4.4	7.1	9.8	12.0	12.6
47.5°	2.7	1.6	2.2	4.4	7.1	9.8	12.0	13.1
50°	1.6	1.6	1.6	4.4	7.1	10.4	12.6	13.1
52.5°	2.2	2.2	2.2	4.4	7.1	10.4	12.6	13.1
55°	2.2	2.2	2.2	4.4	7.1	10.4	12.6	13.1
57.5°	2.2	2.2	2.2	4.4	7.1	9.8	12.6	13.1
60°	2.2	2.2	2.2	3.8	6.6	9.8	12.0	12.6
62.5°	2.2	2.2	2.2	3.8	6.6	9.3	12.0	12.0
65°	2.2	2.2	2.2	3.3	6.0	8.8	10.9	11.5
67.5°	2.2	2.2	2.2	3.3	5.5	8.2	10.4	10.9
70°	1.6	2.2	2.2	2.7	4.9	7.7	9.8	10.4
72.5°	1.6	1.6	2.2	2.7	4.4	6.6	8.8	9.3
75°	1.6	1.6	1.6	2.2	3.8	6.0	7.7	8.2
77.5°	1.6	1.6	1.6	2.2	3.3	4.9	7.1	7.1
80°	1.1	1.6	1.6	1.6	2.7	3.8	5.5	6.0
82.5°	1.1	1.1	1.1	1.6	2.2	3.3	4.4	4.4
85°	1.1	1.1	1.1	1.1	1.6	2.2	2.7	2.7
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)