

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: P1314370

Luminaire Tested: LDSQA3D05R509730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314370
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: LDSQA3D05R509730DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

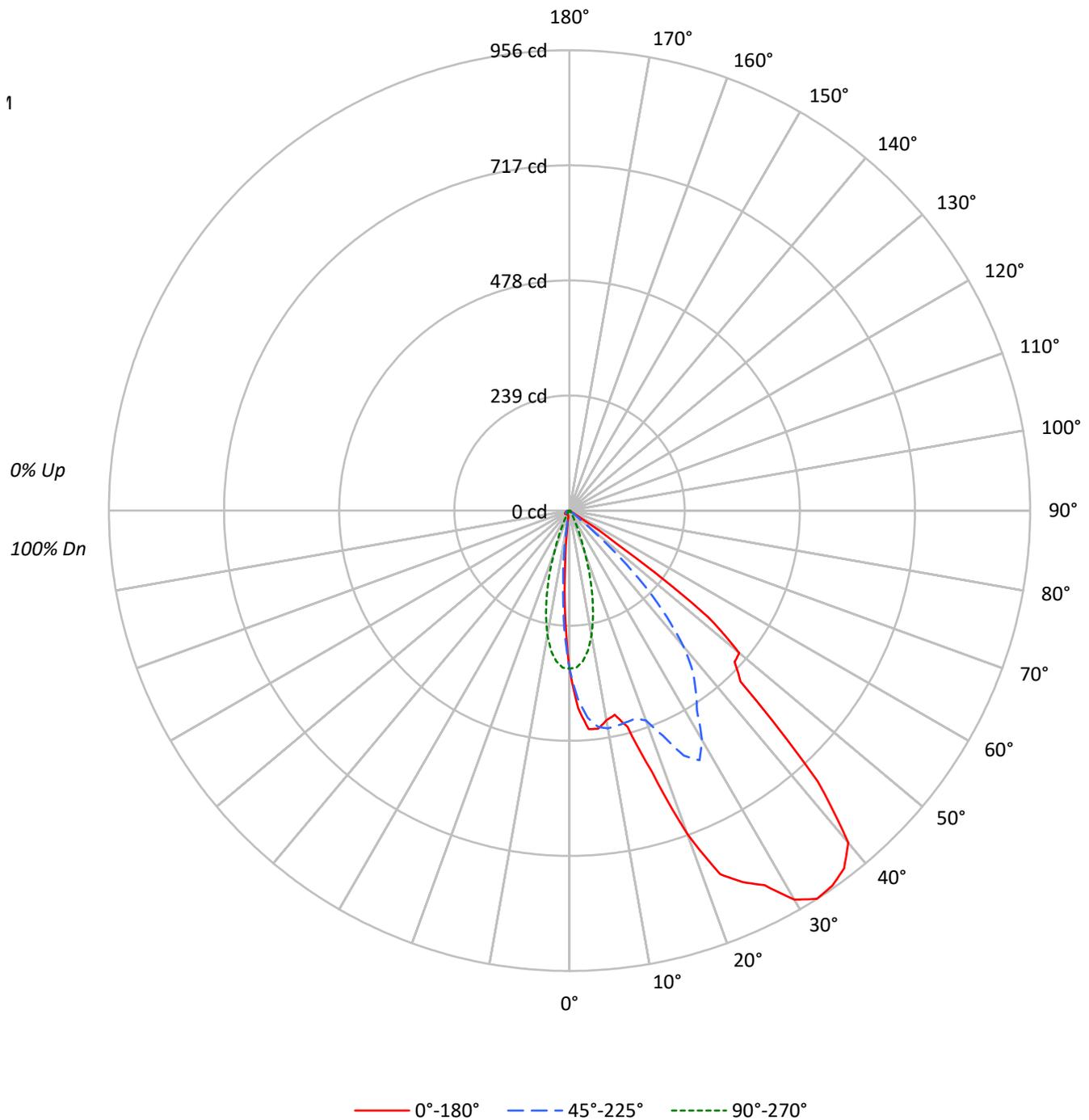
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 509.9 lumens
Efficiency: N/A
Efficacy: 70.8 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 (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	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	56472	56472	56472	56472	56472
5°	78730	74702	54284	26088	16925
10°	77297	80270	45871	5491	2361
15°	82891	81126	32432	1926	1836
20°	130895	84948	17118	1649	1723
25°	161751	106681	6822	1539	1710
30°	185442	109416	2764	1511	1790
35°	199922	96040	1219	1598	1976
40°	202361	82712	899	1821	2226
45°	122316	53607	877	1973	2509
50°	123221	9270	965	2277	2894
55°	36422	540	1081	2552	3243
60°	620	620	1068	2790	3548
65°	530	530	1100	2934	3831
70°	655	655	1108	3172	4280
75°	599	599	1198	3261	4458
80°	397	893	1289	3075	4860
85°	790	1778	1778	3557	4347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 139706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.5	5.2
10°-20°	65.8	12.9
20°-30°	123.3	24.2
30°-40°	147.5	28.9
40°-50°	105.7	20.7
50°-60°	32.6	6.4
60°-70°	4.2	0.8
70°-80°	3.1	0.6
80°-90°	1.2	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°	215.7	42.3
0°-40°	363.1	71.2
0°-60°	501.4	98.3
0°-90°	509.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	509.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	328	328	328	328	328	
5°	455	432	314	151	98	42
15°	465	455	182	11	10	149
25°	851	561	36	8	9	392
35°	951	457	6	8	9	590
45°	502	220	4	8	10	461
55°	121	2	4	8	11	156
65°	1	1	3	7	9	1
75°	1	1	2	5	7	1
85°	0	1	1	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°	50°
0°	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
2.5°	410.1	411.0	412.3	408.7	406.5	404.7	401.5	400.7	393.0	389.9	386.7
5°	455.4	454.5	455.4	454.1	453.2	450.5	447.8	443.3	438.4	432.1	424.9
7.5°	456.8	455.9	457.7	457.7	459.5	459.5	459.5	459.9	457.2	452.8	446.5
10°	442.0	442.0	443.8	442.9	446.0	447.4	450.5	455.9	458.6	459.0	457.2
12.5°	434.3	434.3	434.8	433.0	433.9	435.2	438.8	445.1	451.4	457.7	461.3
15°	464.9	465.8	459.5	450.5	443.8	436.6	434.3	438.4	445.1	455.0	463.1
17.5°	568.6	570.0	563.2	541.7	521.0	491.4	464.9	451.9	444.7	452.8	463.5
20°	714.2	709.2	697.5	674.6	644.5	598.7	557.4	515.6	475.7	463.5	467.1
22.5°	817.0	815.2	805.8	780.2	754.1	711.5	658.9	600.5	542.6	505.8	486.4
25°	851.2	849.8	841.3	826.0	811.6	779.3	732.1	673.3	612.7	561.4	512.9
27.5°	876.8	875.0	861.5	844.4	829.6	796.8	753.7	709.2	653.5	584.4	509.8
30°	932.5	927.5	908.7	878.1	849.8	804.4	756.8	701.6	626.1	550.2	477.5
32.5°	955.8	953.1	936.9	912.2	881.3	822.0	749.6	657.1	557.9	492.3	439.3
35°	950.9	946.8	930.2	901.9	864.2	807.1	710.6	583.5	502.6	456.8	397.1
37.5°	936.0	930.2	910.4	877.2	831.4	756.8	630.6	523.7	471.6	420.0	339.6
40°	900.1	890.7	867.8	833.2	787.4	689.5	557.9	487.8	439.3	367.9	275.3
42.5°	762.7	757.7	769.0	763.1	722.7	607.3	506.2	455.0	388.1	297.3	199.4
45°	502.2	510.7	530.9	565.5	573.6	522.4	464.0	401.1	319.4	220.1	115.0
47.5°	464.9	463.1	468.0	474.8	476.1	454.5	401.5	331.5	237.2	125.8	31.9
50°	459.9	457.2	453.2	445.1	428.0	386.3	326.1	241.6	137.0	34.6	2.2
52.5°	363.4	360.7	360.7	349.0	327.0	286.6	225.0	133.0	38.2	2.2	1.8
55°	121.3	129.4	128.0	127.6	137.4	126.7	97.0	34.1	3.1	1.8	1.8
57.5°	2.2	2.2	2.2	4.0	6.3	9.0	5.4	2.7	1.8	1.8	1.8
60°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
62.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3
77.5°	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	327.9	327.9	327.9	327.9	327.9	327.9	327.9	327.9
2.5°	379.5	373.3	361.1	326.5	288.4	244.8	215.1	211.6
5°	413.7	404.2	384.5	314.0	226.8	150.9	112.3	97.9
7.5°	436.1	423.6	399.3	293.3	165.3	79.5	42.7	34.1
10°	449.6	437.9	406.9	262.3	105.1	31.4	14.4	13.5
12.5°	456.8	445.6	409.6	225.0	59.3	14.4	11.2	11.2
15°	461.7	449.6	405.6	181.9	29.6	10.8	10.3	10.3
17.5°	464.0	449.2	393.9	137.0	15.7	9.9	9.9	9.9
20°	465.3	444.2	372.4	93.4	10.8	9.0	9.4	9.4
22.5°	466.7	432.1	344.1	59.3	8.5	8.5	9.0	9.0
25°	464.0	411.0	304.1	35.9	7.6	8.1	8.5	9.0
27.5°	444.7	379.1	255.6	22.0	6.7	7.6	8.5	9.0
30°	411.4	332.4	199.4	13.9	6.3	7.6	8.5	9.0
32.5°	368.3	278.9	142.4	8.5	6.3	7.6	8.5	9.0
35°	310.4	213.4	92.5	5.8	6.3	7.6	9.0	9.4
37.5°	245.2	149.1	49.9	4.5	6.3	7.6	9.0	9.4
40°	176.5	89.4	18.0	4.0	5.8	8.1	9.4	9.9
42.5°	103.3	33.2	3.1	3.6	5.8	8.1	9.4	9.9
45°	29.6	3.6	1.8	3.6	5.8	8.1	9.9	10.3
47.5°	2.2	1.3	1.8	3.6	5.8	8.1	9.9	10.8
50°	1.3	1.3	1.3	3.6	5.8	8.5	10.3	10.8
52.5°	1.8	1.8	1.8	3.6	5.8	8.5	10.3	10.8
55°	1.8	1.8	1.8	3.6	5.8	8.5	10.3	10.8
57.5°	1.8	1.8	1.8	3.6	5.8	8.1	10.3	10.8
60°	1.8	1.8	1.8	3.1	5.4	8.1	9.9	10.3
62.5°	1.8	1.8	1.8	3.1	5.4	7.6	9.9	9.9
65°	1.8	1.8	1.8	2.7	4.9	7.2	9.0	9.4
67.5°	1.8	1.8	1.8	2.7	4.5	6.7	8.5	9.0
70°	1.3	1.8	1.8	2.2	4.0	6.3	8.1	8.5
72.5°	1.3	1.3	1.8	2.2	3.6	5.4	7.2	7.6
75°	1.3	1.3	1.3	1.8	3.1	4.9	6.3	6.7
77.5°	1.3	1.3	1.3	1.8	2.7	4.0	5.8	5.8
80°	0.9	1.3	1.3	1.3	2.2	3.1	4.5	4.9
82.5°	0.9	0.9	0.9	1.3	1.8	2.7	3.6	3.6
85°	0.9	0.9	0.9	0.9	1.3	1.8	2.2	2.2
87.5°	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)