Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1312856

Luminaire Tested: LDSQA3D20R309050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1312856
	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:	LDSQA3D20R309050D010 3LSQCA30R 1MW
Description:	3in Adjustable LED luminaire with, R30 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2019.9 lumens
Efficiency:	N/A
Efficacy:	70.1 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 (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

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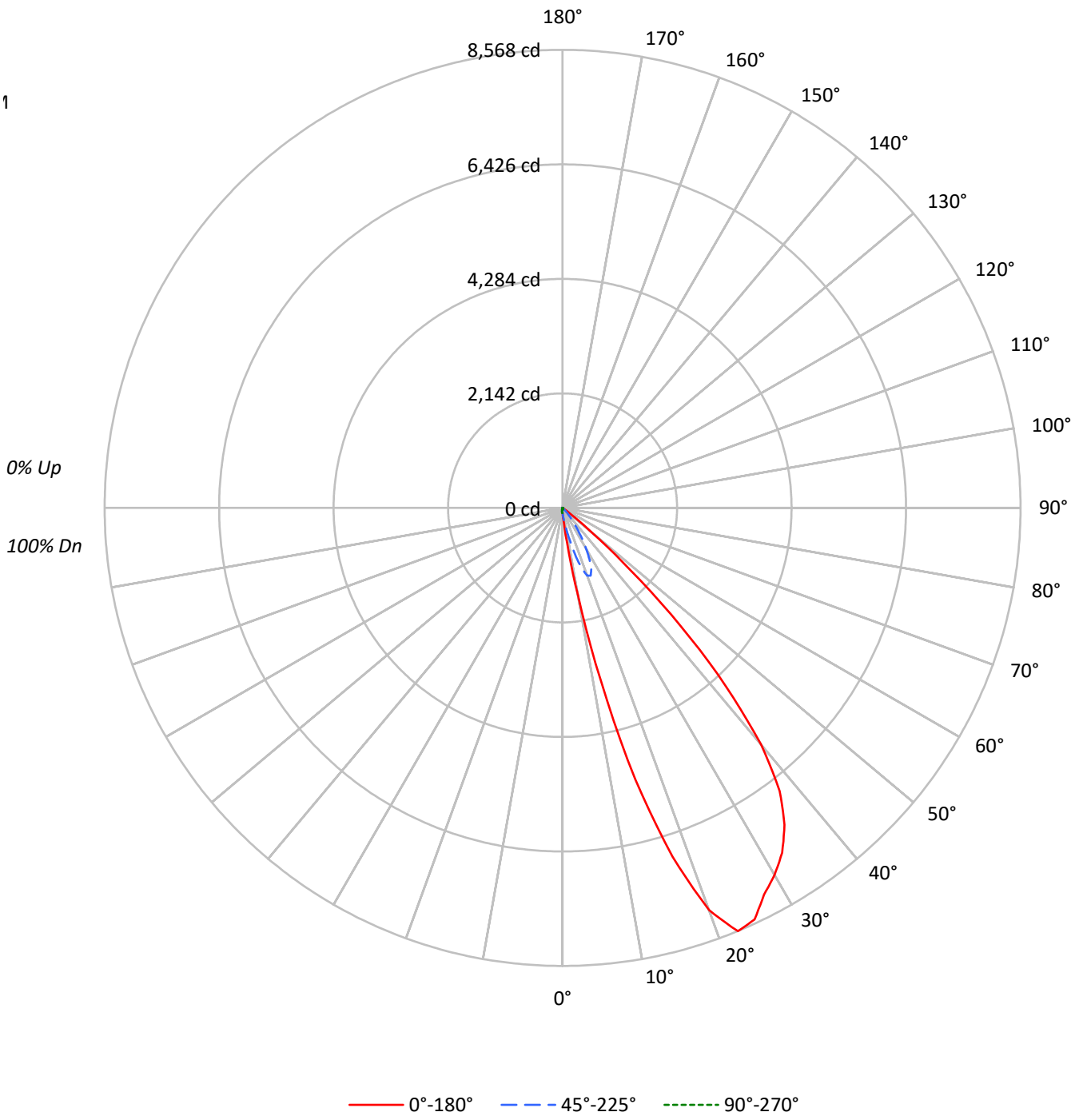
Luminous Intensity Polar Plot



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16533	16533	16533	16533	16533
5°	49772	33193	15628	7019	5740
10°	288254	70371	12259	3235	2256
15°	937616	159612	8558	660	321
20°	1467175	246945	5407	0	0
25°	1614181	241315	2812	0	0
30°	1576567	173987	1094	0	0
35°	1521648	98962	378	0	0
40°	1297643	41907	0	0	0
45°	761562	15734	438	0	438
50°	184953	2974	482	482	1474
55°	16064	0	1111	1651	2222
60°	620	0	1274	1894	3169
65°	734	734	2241	2241	3749
70°	906	906	2769	2769	3726
75°	0	1198	3660	3660	3660
80°	0	1785	5455	3670	3670
85°	0	3557	10868	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 761562 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.9
10°-20°	277.6	13.7
20°-30°	705.5	34.9
30°-40°	703.2	34.8
40°-50°	284.9	14.1
50°-60°	19.7	1.0
60°-70°	4.4	0.2
70°-80°	4.4	0.2
80°-90°	2.5	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°	1000.8	49.5
0°-40°	1704.0	84.4
0°-60°	2008.5	99.4
0°-90°	2019.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2019.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	96	96	96	96	96	
5°	288	192	90	41	33	67
15°	5259	895	48	4	2	1530
25°	8494	1270	15	0	0	3835
35°	7238	471	2	0	0	4436
45°	3127	65	2	0	2	2385
55°	54	0	4	6	7	140
65°	2	2	6	6	9	2
75°	0	2	6	6	6	1
85°	0	2	6	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°	*96.0*	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0	96.0
2.5°	*158.7*	160.6	160.6	156.9	155.0	155.0	149.5	147.7	142.1	136.6	118.1
5°	*287.9*	282.4	275.0	275.0	258.4	249.2	236.3	221.5	210.4	192.0	136.6
7.5°	*653.4*	609.1	596.2	579.6	516.8	467.0	409.8	359.9	313.8	275.0	151.4
10°	*1648.3*	1561.6	1489.6	1343.8	1161.0	985.7	823.2	635.0	505.8	402.4	162.4
12.5°	*3320.6*	3204.3	3065.9	2800.1	2458.6	2021.2	1633.5	1220.1	856.5	592.5	166.1
15°	*5258.7*	5061.2	4845.3	4507.5	3948.2	3320.6	2621.1	1962.1	1375.1	895.2	162.4
17.5°	*6838.8*	6761.2	6441.9	5980.4	5295.7	4487.2	3625.2	2724.4	1855.0	1172.1	151.4
20°	*8005.3*	7951.8	7566.0	7075.0	6303.5	5376.9	4282.3	3200.6	2189.1	1347.4	134.7
22.5°	*8568.3*	*8559.1*	*8280.3*	*7778.3*	*6960.6*	*5910.3*	*4705.0*	*3475.7*	*2292.5*	*1371.4*	*112.6*
25°	*8494.5*	8527.7	8368.9	7996.1	7211.6	6130.0	4830.5	3475.7	2216.8	1269.9	94.1
27.5°	*8158.5*	8180.7	8081.0	7794.9	7063.9	5971.2	4655.2	3252.3	1997.2	1090.9	77.5
30°	*7927.8*	7937.0	7813.3	7506.9	6731.7	5609.4	4241.7	2838.9	1664.9	874.9	57.2
32.5°	*7647.2*	7645.4	7501.4	7150.7	6296.1	5101.8	3717.5	2346.0	1279.2	664.5	33.2
35°	*7237.5*	7191.3	6995.6	6591.4	5646.4	4418.9	3047.4	1786.8	921.1	470.7	20.3
37.5°	*6674.5*	6554.5	6277.6	5736.8	4734.5	3464.6	2259.3	1255.2	629.4	311.9	12.9
40°	*5771.9*	5644.5	5268.0	4610.9	3580.9	2493.7	1522.8	817.7	396.9	186.4	7.4
42.5°	*4525.9*	4439.2	3931.6	3276.3	2364.5	1591.1	915.5	483.6	223.3	107.1	1.8
45°	*3126.8*	3014.2	2615.5	2059.9	1419.4	882.3	513.1	252.9	127.4	64.6	0.0
47.5°	*1725.8*	1587.4	1356.7	1066.9	714.3	463.3	258.4	136.6	72.0	31.4	0.0
50°	*690.3*	684.8	544.5	387.6	273.2	210.4	129.2	73.8	36.9	11.1	1.8
52.5°	*241.8*	241.8	208.6	169.8	132.9	96.0	64.6	35.1	12.9	3.7	1.8
55°	*53.5*	59.1	55.4	51.7	49.8	42.5	27.7	12.9	3.7	0.0	1.8
57.5°	*5.5*	5.5	5.5	7.4	9.2	9.2	7.4	3.7	0.0	0.0	1.8
60°	*1.8*	1.8	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	3.7
62.5°	*1.8*	1.8	1.8	1.8	1.8	0.0	0.0	0.0	1.8	1.8	3.7
65°	*1.8*	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
67.5°	*1.8*	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7
70°	*1.8*	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
72.5°	*1.8*	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	5.5
75°	*0.0*	0.0	1.8	1.8	0.0	1.8	1.8	1.8	1.8	1.8	5.5
77.5°	*0.0*	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.7
80°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	3.7
82.5°	*0.0*	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	3.7
85°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7
87.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	3.7
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°	96.0	96.0	96.0	96.0	96.0
2.5°	96.0	75.7	62.8	55.4	53.5
5°	90.4	57.2	40.6	35.1	33.2
7.5°	81.2	42.5	27.7	22.1	20.3
10°	70.1	31.4	18.5	12.9	12.9
12.5°	59.1	24.0	11.1	5.5	3.7
15°	48.0	14.8	3.7	1.8	1.8
17.5°	36.9	9.2	0.0	0.0	0.0
20°	29.5	3.7	0.0	0.0	0.0
22.5°	*22.1*	*1.8*	*0.0*	*0.0*	*0.0*
25°	14.8	0.0	0.0	0.0	0.0
27.5°	9.2	0.0	0.0	0.0	0.0
30°	5.5	0.0	0.0	0.0	0.0
32.5°	1.8	0.0	0.0	0.0	0.0
35°	1.8	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°	1.8	0.0	0.0	1.8	1.8
47.5°	1.8	1.8	1.8	3.7	3.7
50°	1.8	1.8	1.8	3.7	5.5
52.5°	3.7	1.8	3.7	5.5	5.5
55°	3.7	3.7	5.5	7.4	7.4
57.5°	3.7	3.7	5.5	7.4	7.4
60°	3.7	3.7	5.5	7.4	9.2
62.5°	5.5	5.5	5.5	7.4	7.4
65°	5.5	5.5	5.5	7.4	9.2
67.5°	5.5	5.5	5.5	7.4	9.2
70°	5.5	5.5	5.5	7.4	7.4
72.5°	7.4	5.5	5.5	7.4	7.4
75°	5.5	5.5	5.5	5.5	5.5
77.5°	5.5	5.5	3.7	5.5	5.5
80°	5.5	3.7	3.7	3.7	3.7
82.5°	5.5	3.7	3.7	3.7	3.7
85°	5.5	3.7	1.8	1.8	1.8
87.5°	5.5	3.7	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)