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: P1309908

Luminaire Tested: LDSQA3D02R459035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1309908
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LDSQA3D02R459035DE010 3LSQCA30R 1MW
Description:	3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	300.1 lumens
Efficiency:	N/A
Efficacy:	83.4 lumens/watt
Spacing Criteria (0/90/45):	2.13 / 0.47 / 1.22
Luminous Opening:	Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type:	Direct
Input Watts (W):	3.6
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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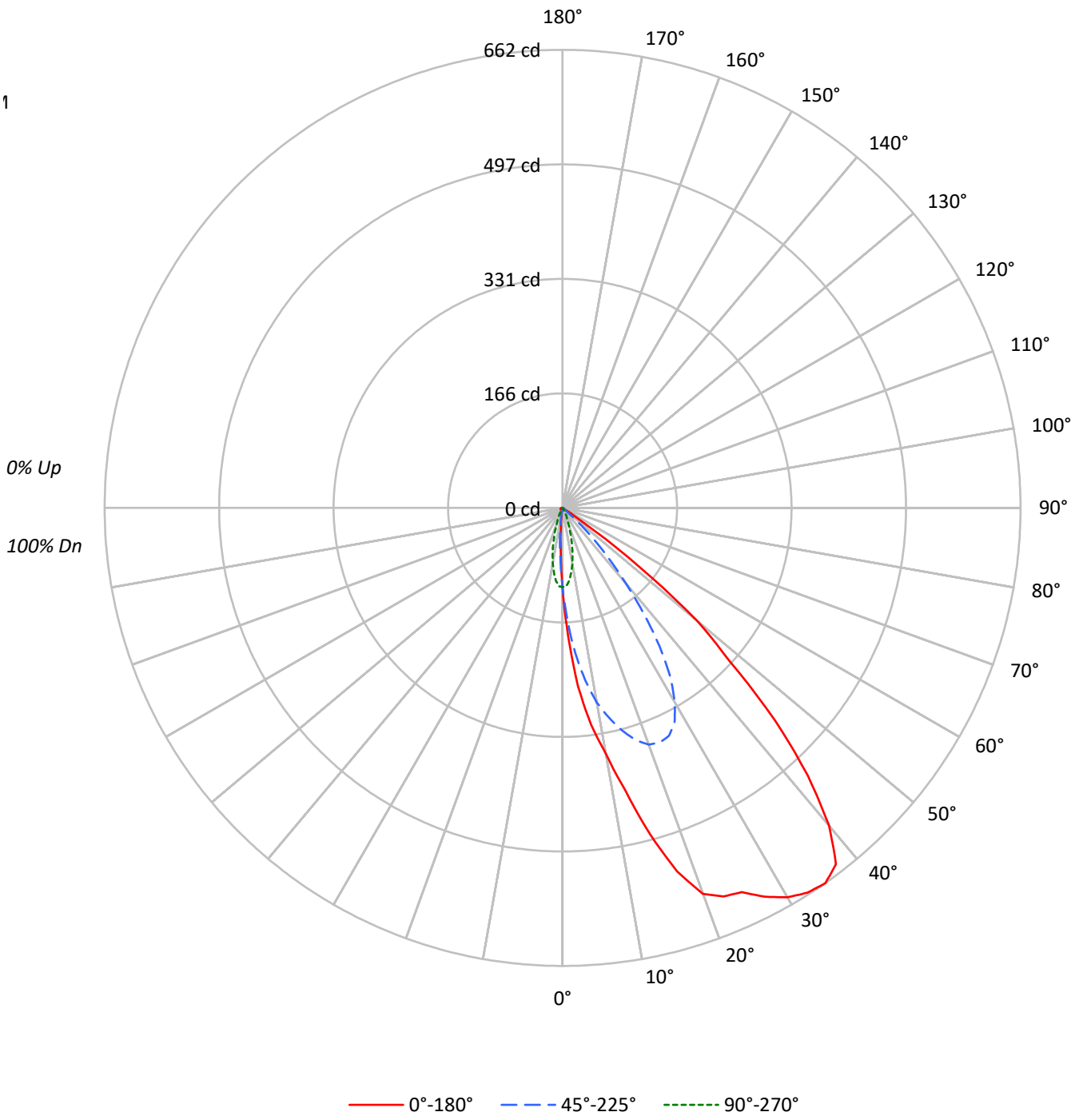
Luminous Intensity Polar Plot



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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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	42	51	46	42	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°	19668	19668	19668	19668	19668
5°	44811	36339	18394	7382	5031
10°	63131	49928	14218	1626	752
15°	87009	59409	9075	535	446
20°	108792	66712	4729	367	367
25°	116429	69075	2185	285	342
30°	129223	64512	994	298	358
35°	139203	51426	315	315	420
40°	134690	31880	180	405	517
45°	105778	15028	195	487	609
50°	67974	1742	268	616	804
55°	10329	150	300	751	991
60°	172	172	344	861	1033
65°	204	204	408	937	1223
70°	252	252	504	1007	1410
75°	200	333	665	1198	1530
80°	298	496	793	1289	1785
85°	0	593	988	1581	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 105778 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.5	4.2
10°-20°	45.2	15.1
20°-30°	79.4	26.4
30°-40°	90.1	30.0
40°-50°	58.4	19.4
50°-60°	11.5	3.8
60°-70°	1.4	0.5
70°-80°	1.2	0.4
80°-90°	0.5	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°	137.0	45.7
0°-40°	227.1	75.7
0°-60°	297.0	99.0
0°-90°	300.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	300.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	114	114	114	114	114	
5°	259	210	106	43	29	28
15°	488	333	51	3	2	141
25°	613	364	12	2	2	287
35°	662	245	2	2	2	407
45°	434	62	1	2	2	327
55°	34	0	1	2	3	66
65°	0	0	1	2	3	0
75°	0	0	1	2	2	0
85°	0	0	0	1	1	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°	*114.2*	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	*185.4*	184.9	185.7	180.6	180.4	176.6	175.6	171.4	165.6	162.8	156.3
5°	*259.2*	256.7	256.7	250.6	248.6	244.4	237.1	228.1	220.5	210.2	199.2
7.5°	*316.1*	315.6	315.6	310.4	305.3	299.3	289.5	279.2	267.2	251.4	235.3
10°	*361.0*	361.8	359.5	354.8	347.5	341.0	329.4	316.9	302.1	285.5	264.2
12.5°	*417.7*	412.2	410.5	399.7	390.4	377.8	364.0	349.7	331.4	310.6	286.5
15°	*488.0*	481.0	473.9	459.6	444.1	424.8	403.2	382.1	358.5	333.2	303.1
17.5°	*550.7*	550.7	541.4	518.8	498.8	470.2	441.1	413.0	385.1	351.8	314.1
20°	*593.6*	591.4	584.3	567.8	544.9	512.6	474.7	435.3	401.7	364.0	320.4
22.5°	*607.7*	607.2	607.4	597.6	579.3	545.7	499.3	452.9	410.7	367.1	317.4
25°	*612.7*	613.7	616.2	612.4	598.6	565.0	514.3	461.1	413.5	363.5	305.8
27.5°	*633.5*	631.5	634.3	631.7	616.2	576.0	517.3	459.1	407.4	350.7	285.3
30°	*649.8*	649.3	654.1	651.8	631.5	583.1	514.6	451.6	392.6	324.4	252.9
32.5°	*659.1*	659.3	660.6	651.3	621.2	567.8	501.0	436.3	364.8	290.0	210.7
35°	*662.1*	*660.6*	*653.6*	*630.7*	*589.6*	*532.4*	*467.7*	*399.9*	*326.9*	*244.6*	*166.6*
37.5°	*649.1*	641.3	623.2	589.1	541.4	488.0	425.0	354.0	275.0	193.2	124.2
40°	*599.1*	588.8	566.0	531.1	486.7	435.0	370.6	296.3	213.3	141.8	87.3
42.5°	*524.4*	519.1	495.3	464.9	427.3	375.1	308.6	233.3	157.8	97.8	55.7
45°	*434.3*	427.5	412.5	385.6	356.0	301.3	239.4	167.1	107.6	61.7	27.6
47.5°	*325.7*	326.2	315.9	295.6	266.4	220.8	163.8	112.1	67.5	31.9	6.3
50°	*253.7*	250.1	235.6	214.8	180.9	147.0	105.9	70.8	35.6	6.5	0.5
52.5°	*140.5*	142.8	135.0	128.2	110.6	87.8	62.5	35.9	7.5	0.8	0.5
55°	*34.4*	36.4	34.9	35.6	36.9	32.9	25.3	7.0	0.8	0.5	0.5
57.5°	*0.8*	0.8	0.8	0.8	1.3	1.8	1.8	0.5	0.5	0.5	0.5
60°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
62.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	*0.5*	0.5	0.5	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
77.5°	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
80°	*0.3*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
82.5°	*0.0*	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.5
85°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
87.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	153.0	148.3	139.5	113.4	91.1	73.5	63.0	62.0
5°	189.4	176.6	158.1	106.4	67.2	42.7	30.9	29.1
7.5°	218.3	200.2	171.6	94.8	45.9	21.8	12.0	10.0
10°	242.1	216.5	178.6	81.3	28.9	9.3	5.0	4.3
12.5°	258.4	227.6	179.9	66.2	16.6	4.5	3.3	3.0
15°	269.0	231.1	173.9	50.9	9.3	3.0	2.8	2.5
17.5°	273.2	228.1	162.3	36.9	5.0	2.3	2.3	2.3
20°	271.2	218.3	145.3	25.8	3.3	2.0	2.0	2.0
22.5°	261.7	201.5	123.9	17.3	2.3	1.8	1.8	1.8
25°	242.9	178.6	101.4	11.5	1.5	1.5	1.8	1.8
27.5°	214.8	150.5	77.5	7.8	1.3	1.5	1.8	1.8
30°	179.4	119.2	55.7	5.0	1.3	1.5	1.5	1.8
32.5°	142.5	86.8	36.6	3.0	1.0	1.5	1.8	2.0
35°	*103.4*	*59.2*	*23.3*	*1.5*	*1.3*	*1.5*	*1.8*	*2.0*
37.5°	72.5	38.6	13.5	1.0	1.3	1.5	2.0	2.0
40°	47.2	21.6	5.0	0.8	1.3	1.8	2.0	2.3
42.5°	24.6	7.5	1.0	0.8	1.3	1.8	2.3	2.5
45°	6.3	1.0	0.3	0.8	1.5	2.0	2.5	2.5
47.5°	0.8	0.3	0.3	1.0	1.5	2.3	2.5	2.8
50°	0.3	0.5	0.5	1.0	1.5	2.3	2.8	3.0
52.5°	0.5	0.5	0.5	1.0	1.8	2.3	3.0	3.3
55°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.3
57.5°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.0
60°	0.5	0.5	0.5	1.0	1.8	2.5	3.0	3.0
62.5°	0.5	0.5	0.8	1.0	1.8	2.3	3.0	3.0
65°	0.5	0.8	0.8	1.0	1.8	2.3	2.8	3.0
67.5°	0.5	0.5	0.8	1.0	1.8	2.3	2.8	3.0
70°	0.5	0.5	0.8	1.0	1.5	2.0	2.5	2.8
72.5°	0.5	0.5	0.8	1.0	1.5	2.0	2.3	2.5
75°	0.5	0.5	0.8	1.0	1.3	1.8	2.3	2.3
77.5°	0.5	0.5	0.8	0.8	1.3	1.5	2.0	2.0
80°	0.5	0.5	0.8	0.8	1.0	1.3	1.5	1.8
82.5°	0.5	0.5	0.5	0.8	0.8	1.0	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
87.5°	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)