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: P1317240

Luminaire Tested: LDSQA3D05R509827DE010 3LSQCDR1MW

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1317240
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-39)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LDSQA3D05R509827DE010 3LSQCDR1MW
Description:	3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCDR1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	485.9 lumens
Efficiency:	N/A
Efficacy:	67.5 lumens/watt
Spacing Criteria (0/90/45):	0.85 / 0.85 / 0.78
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

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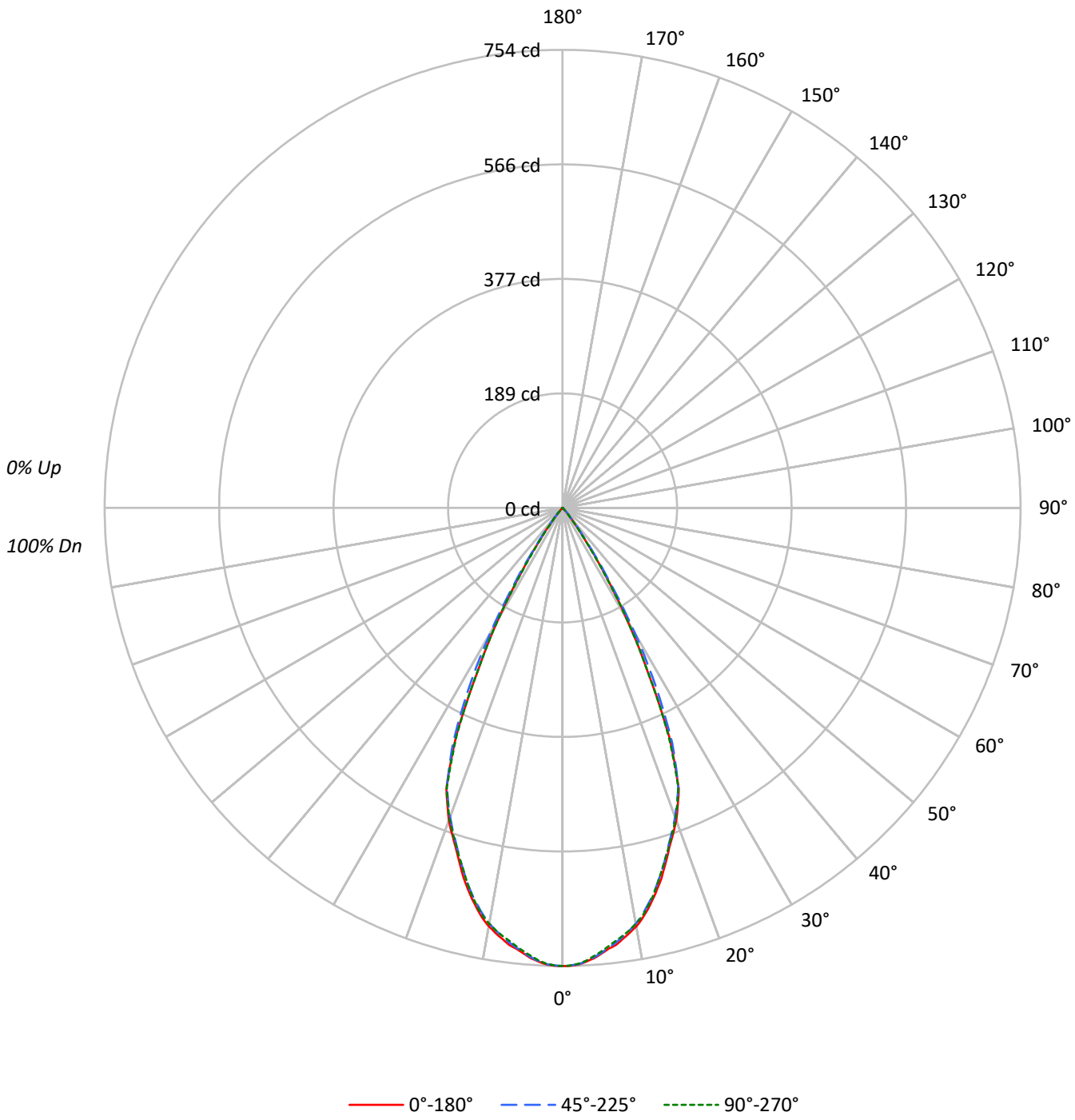
Luminous Intensity Polar Plot



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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	114	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	90
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85
4	100	93	89	85	98	92	88	84	90	86	83	88	85	82	87	84	81	80
5	96	88	83	80	94	88	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	90	83	78	75	82	77	74	80	77	74	79	76	73	72
7	88	80	74	71	87	79	74	71	78	73	70	77	73	70	76	72	69	68
8	84	76	71	67	83	75	70	67	74	70	67	73	69	66	72	69	66	65
9	81	72	67	64	80	72	67	63	71	66	63	70	66	63	69	66	63	62
10	78	69	64	60	77	69	64	60	68	63	60	67	63	60	66	63	60	59

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	129873	129873	129873
5°	127326	127102	126739
10°	122346	121506	121559
15°	112310	111276	111151
20°	100343	99262	99775
25°	78861	81160	78215
30°	42199	47270	42338
35°	13771	16105	12993
40°	3417	4272	3260
45°	414	1510	414
50°	268	455	268
55°	300	300	300
60°	241	241	241
65°	285	285	285
70°	151	151	151
75°	200	200	200
80°	298	298	298
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
Vertical Angle: 45°
Luminance: 1510 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	14.2
10°-20°	174.4	35.9
20°-30°	183.4	37.8
30°-40°	52.9	10.9
40°-50°	4.3	0.9
50°-60°	0.9	0.2
60°-70°	0.7	0.1
70°-80°	0.3	0.1
80°-90°	0.1	0.0
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°	426.8	87.8
0°-40°	479.7	98.7
0°-60°	484.8	99.8
0°-90°	485.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	485.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	754	754	754	754	754	
5°	736	736	735	736	733	69
15°	630	626	624	624	623	175
25°	415	425	427	422	412	180
35°	66	68	77	66	62	51
45°	2	3	6	3	2	3
55°	1	1	1	1	1	1
65°	1	1	1	1	1	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	754.1	754.1	754.1	*754.1*	754.1
1°	*753.8*	*754.5*	*753.1*	*755.5*	*753.4*
2°	752.1	752.4	751.7	*753.4*	750.7
3°	747.9	748.6	747.2	*748.6*	746.2
4°	743.1	743.1	741.7	*742.8*	739.6
5°	736.5	736.2	735.2	*735.9*	733.1
6°	729.6	729.3	727.6	*727.6*	725.5
7°	724.5	722.1	720.7	*720.3*	718.3
8°	716.2	715.5	712.7	*712.7*	711.4
9°	707.9	707.2	704.1	*704.8*	703.8
10°	699.6	697.2	694.8	*695.1*	695.1
11°	688.6	686.5	683.1	*684.5*	685.1
12°	675.5	673.1	670.0	*672.7*	672.4
13°	661.0	658.9	656.5	*658.6*	657.9
14°	645.8	642.7	640.6	*642.0*	641.3
15°	629.9	625.8	624.1	*624.1*	623.4
17.5°	585.4	583.0	581.3	*580.3*	582.7
20°	547.5	545.4	541.6	*542.7*	544.4
22.5°	499.9	499.5	497.5	*495.7*	497.8
25°	415.0	425.4	427.1	*422.3*	411.6
27.5°	301.5	325.7	334.3	*322.9*	303.2
30°	212.2	223.6	237.7	*215.3*	212.9
32.5°	128.0	131.1	144.2	*128.7*	125.2
35°	65.5	68.0	76.6	*65.5*	61.8
37.5°	30.7	32.1	35.5	*30.7*	28.6
40°	15.2	16.9	19.0	*15.9*	14.5
42.5°	6.6	8.6	11.0	*8.3*	5.9
45°	1.7	3.4	6.2	*3.4*	1.7
47.5°	1.0	1.4	3.4	*1.4*	1.0
50°	1.0	1.0	1.7	*1.0*	1.0
52.5°	1.0	1.0	1.0	*1.0*	1.0
55°	1.0	1.0	1.0	*1.0*	1.0
57.5°	1.0	1.0	1.0	*1.0*	1.0
60°	0.7	1.0	0.7	*1.0*	0.7
62.5°	0.7	0.7	0.7	*0.7*	0.7
65°	0.7	0.7	0.7	*0.7*	0.7
67.5°	0.7	0.7	0.7	*0.7*	0.7
70°	0.3	0.3	0.3	*0.3*	0.3
72.5°	0.3	0.3	0.3	*0.3*	0.3
75°	0.3	0.3	0.3	*0.3*	0.3
77.5°	0.3	0.3	0.3	*0.3*	0.3
80°	0.3	0.3	0.3	*0.3*	0.3
82.5°	0.0	0.3	0.0	*0.3*	0.0
85°	0.0	0.0	0.0	*0.0*	0.0
87.5°	0.0	0.0	0.0	*0.0*	0.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
90°	0.0	0.0	0.0	*0.0*	0.0

(END OF REPORT)