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: P1327113

Luminaire Tested: LDSQA3D09R60W2N902765DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1327113
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LDSQA3D09R60W2N902765DE010 3LSQCA45R 1MMS_2700K
Description:	3in Adjustable Tunable White LED luminaire with, R60 optic, 2700K CCT AND, 90CRI , 3LSQCA45R 1MMS TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	581.0 lumens
Efficiency:	N/A
Efficacy:	64.6 lumens/watt
Spacing Criteria (0/90/45):	3.38 / 0.84 / 2.07
Luminous Opening:	Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type:	Direct

Input Watts (W):	9
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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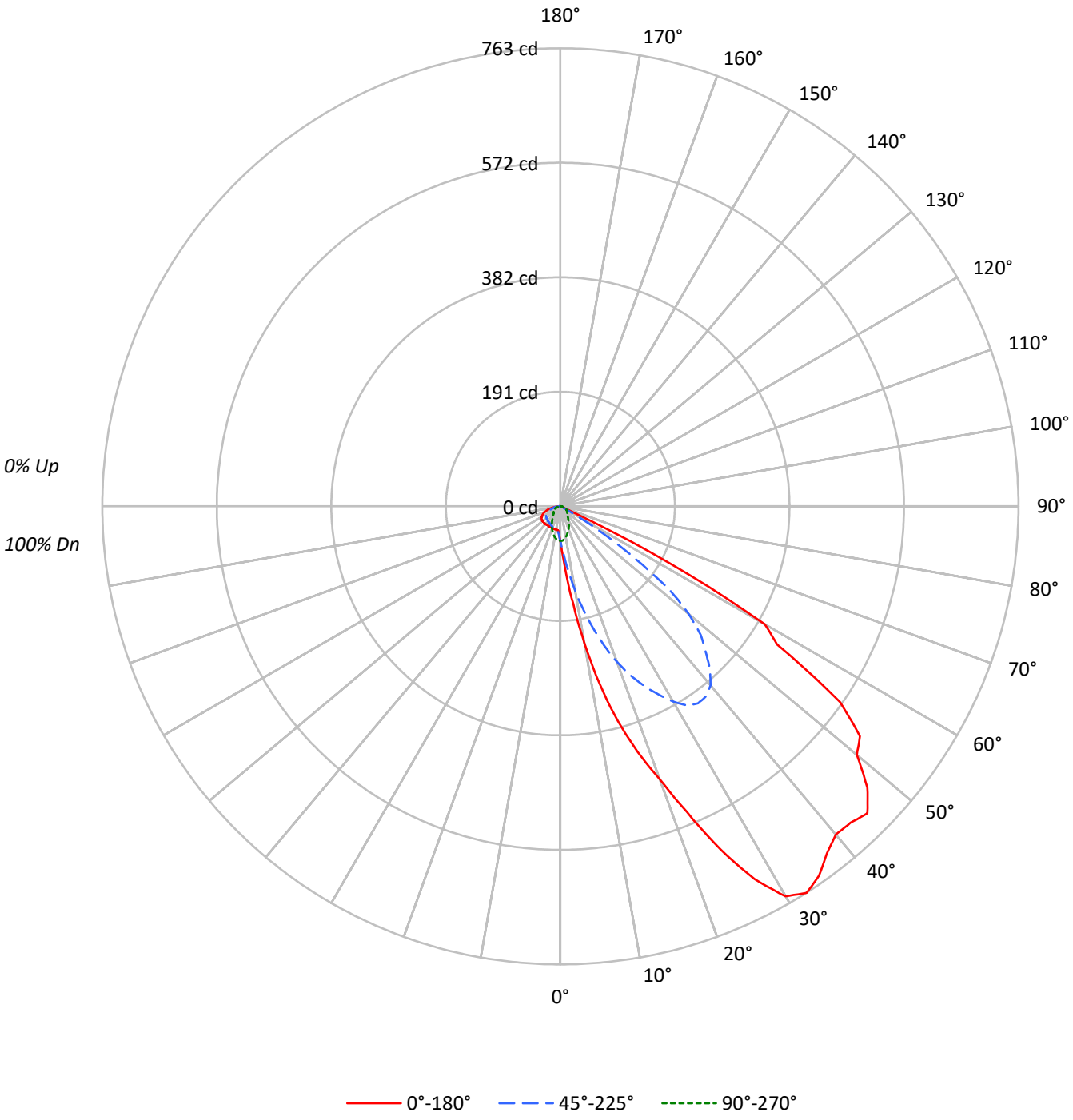
Luminous Intensity Polar Plot



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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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9920	9920	9920	9920	9920
5°	19535	15248	9768	7399	7036
10°	40362	24850	9146	6750	6838
15°	66006	37282	8184	6775	6971
20°	88559	50529	7349	6781	7074
25°	119831	62728	6423	6727	7335
30°	149149	74674	5349	6722	7676
35°	157894	84161	4562	6875	7989
40°	160410	87500	4159	7127	8678
45°	176094	83346	3994	7599	9401
50°	172628	74726	3965	8065	10342
55°	170638	45820	3963	8708	11410
60°	135333	10919	4168	9266	12366
65°	8599	1956	4075	9454	13326
70°	1863	2115	3978	9819	14099
75°	1730	2129	3527	9515	14440
80°	1587	2083	3670	9422	13588
85°	988	2174	4150	8299	13635

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
Vertical Angle: 52.5°
Luminance: 185870 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.2	1.2
10°-20°	36.2	6.2
20°-30°	84.0	14.5
30°-40°	130.6	22.5
40°-50°	148.8	25.6
50°-60°	125.3	21.6
60°-70°	36.4	6.3
70°-80°	9.3	1.6
80°-90°	3.2	0.5
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°	127.4	21.9
0°-40°	258.0	44.4
0°-60°	532.2	91.6
0°-90°	581.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	581.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	113	88	56	43	41	14
15°	370	209	46	38	39	107
25°	631	330	34	35	39	293
35°	751	400	22	33	38	467
45°	723	342	16	31	39	544
55°	568	153	13	29	38	478
65°	21	5	10	23	33	104
75°	3	3	5	14	22	3
85°	0	1	2	4	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6	57.6
2.5°	77.6	77.1	77.1	76.6	76.1	75.5	73.9	73.4	70.2	63.9	57.6
5°	113.0	112.5	110.9	110.4	107.7	104.0	100.3	96.6	88.2	70.2	56.5
7.5°	163.7	164.8	163.7	157.9	154.2	148.4	137.3	129.4	112.5	76.6	54.4
10°	230.8	230.8	229.2	220.2	212.3	201.2	187.0	173.2	142.1	82.4	52.3
12.5°	303.7	305.3	297.3	289.9	275.7	262.0	242.4	221.8	175.9	87.1	49.6
15°	370.2	369.2	361.2	351.7	337.0	317.9	297.3	270.9	209.1	90.3	45.9
17.5°	429.4	427.3	420.4	409.8	391.9	370.8	344.3	315.8	243.5	93.0	43.3
20°	483.2	475.9	467.9	456.8	439.4	417.2	389.8	357.5	275.7	93.0	40.1
22.5°	551.4	544.0	532.9	516.0	492.8	465.3	433.1	396.6	304.2	90.8	37.0
25°	630.6	624.8	605.8	584.1	554.0	521.3	483.8	434.7	330.1	87.7	33.8
27.5°	699.8	693.4	674.4	642.7	606.3	567.2	527.6	477.4	352.8	81.9	30.1
30°	750.0	742.0	727.2	697.1	652.8	605.2	558.2	510.2	375.5	75.0	26.9
32.5°	763.2	762.1	751.0	728.8	689.2	636.9	581.0	528.7	393.5	66.0	24.3
35°	751.0	752.6	750.5	739.4	710.3	659.1	595.7	538.7	400.3	57.0	21.7
37.5°	728.8	730.9	734.6	736.2	717.7	672.3	604.2	542.9	398.7	48.1	20.1
40°	713.5	712.5	712.5	723.0	719.3	678.1	605.2	539.8	389.2	38.6	18.5
42.5°	715.1	703.5	695.6	712.5	717.7	675.5	598.4	531.3	368.6	29.6	16.9
45°	723.0	698.2	684.5	706.1	714.6	666.5	585.7	518.6	342.2	20.6	16.4
47.5°	693.4	677.1	675.0	705.6	708.8	651.2	566.2	498.6	316.9	14.3	15.3
50°	644.3	641.7	652.8	684.5	685.0	625.8	544.0	462.1	278.9	10.0	14.8
52.5°	629.0	630.6	640.6	657.0	641.7	583.1	503.8	431.5	230.8	7.9	14.3
55°	568.3	570.9	580.4	590.5	579.4	530.8	455.3	394.5	152.6	7.4	13.2
57.5°	427.8	434.7	452.1	461.1	462.1	432.5	412.5	340.1	86.1	7.4	12.7
60°	392.9	384.0	376.0	357.5	340.6	337.0	339.1	255.1	31.7	6.9	12.1
62.5°	205.4	201.2	213.4	221.3	223.4	235.0	219.7	134.7	6.9	6.9	11.1
65°	21.1	21.1	25.9	34.3	57.0	76.1	72.4	39.1	4.8	6.3	10.0
67.5°	6.3	6.3	6.3	7.4	9.5	9.5	7.9	5.8	4.8	5.8	9.0
70°	3.7	3.7	3.7	3.7	3.7	3.7	4.2	3.7	4.2	5.3	7.9
72.5°	3.2	3.2	3.2	3.2	3.7	3.7	3.7	3.7	3.7	4.8	6.9
75°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.7	5.3
77.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.6	2.6	3.2	4.2
80°	1.6	1.6	1.6	1.6	1.6	2.1	2.1	2.1	2.1	2.6	3.7
82.5°	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	2.1	2.6
85°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	2.1
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.6
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):

	112.5°	135°	157.5°	180°
0°	57.6	57.6	57.6	57.6
2.5°	52.3	48.6	46.5	45.4
5°	47.5	42.8	41.2	40.7
7.5°	43.3	40.1	39.6	39.6
10°	40.7	38.6	39.1	39.1
12.5°	39.1	38.6	39.1	39.6
15°	37.5	38.0	39.1	39.1
17.5°	36.4	37.5	38.6	39.1
20°	34.9	37.0	38.6	38.6
22.5°	33.8	36.4	38.0	38.6
25°	32.7	35.4	37.5	38.6
27.5°	31.2	34.9	37.5	38.0
30°	29.6	33.8	37.0	38.6
32.5°	*28.0*	*33.3*	*37.0*	*38.0*
35°	26.9	32.7	37.0	38.0
37.5°	25.9	32.2	37.0	38.6
40°	25.4	31.7	36.4	38.6
42.5°	24.3	31.7	36.4	38.6
45°	23.8	31.2	36.4	38.6
47.5°	23.2	30.6	36.4	38.6
50°	22.2	30.1	35.9	38.6
52.5°	21.7	29.6	35.9	38.6
55°	20.6	29.0	35.4	38.0
57.5°	20.1	28.0	34.9	37.0
60°	19.0	26.9	33.8	35.9
62.5°	17.4	25.4	32.2	34.9
65°	15.8	23.2	30.6	32.7
67.5°	14.3	21.7	28.5	30.6
70°	12.7	19.5	25.9	28.0
72.5°	11.1	16.9	23.2	24.8
75°	9.5	14.3	19.5	21.7
77.5°	7.4	11.6	16.4	18.0
80°	5.8	9.5	12.7	13.7
82.5°	4.8	6.9	9.5	10.0
85°	3.2	4.2	5.8	6.9
87.5°	1.6	2.1	2.6	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)