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: P1316666

Luminaire Tested: LDSQA3D13R659740DE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1316666
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LDSQA3D13R659740DE010 3LSQCA45R 1MMS
Description:	3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , 3LSQCA45R 1MMS TRI
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	939.0 lumens
Efficiency:	N/A
Efficacy:	64.3 lumens/watt
Spacing Criteria (0/90/45):	3.28 / 0.89 / 2.04
Luminous Opening:	Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type:	Direct
Input Watts (W):	14.6
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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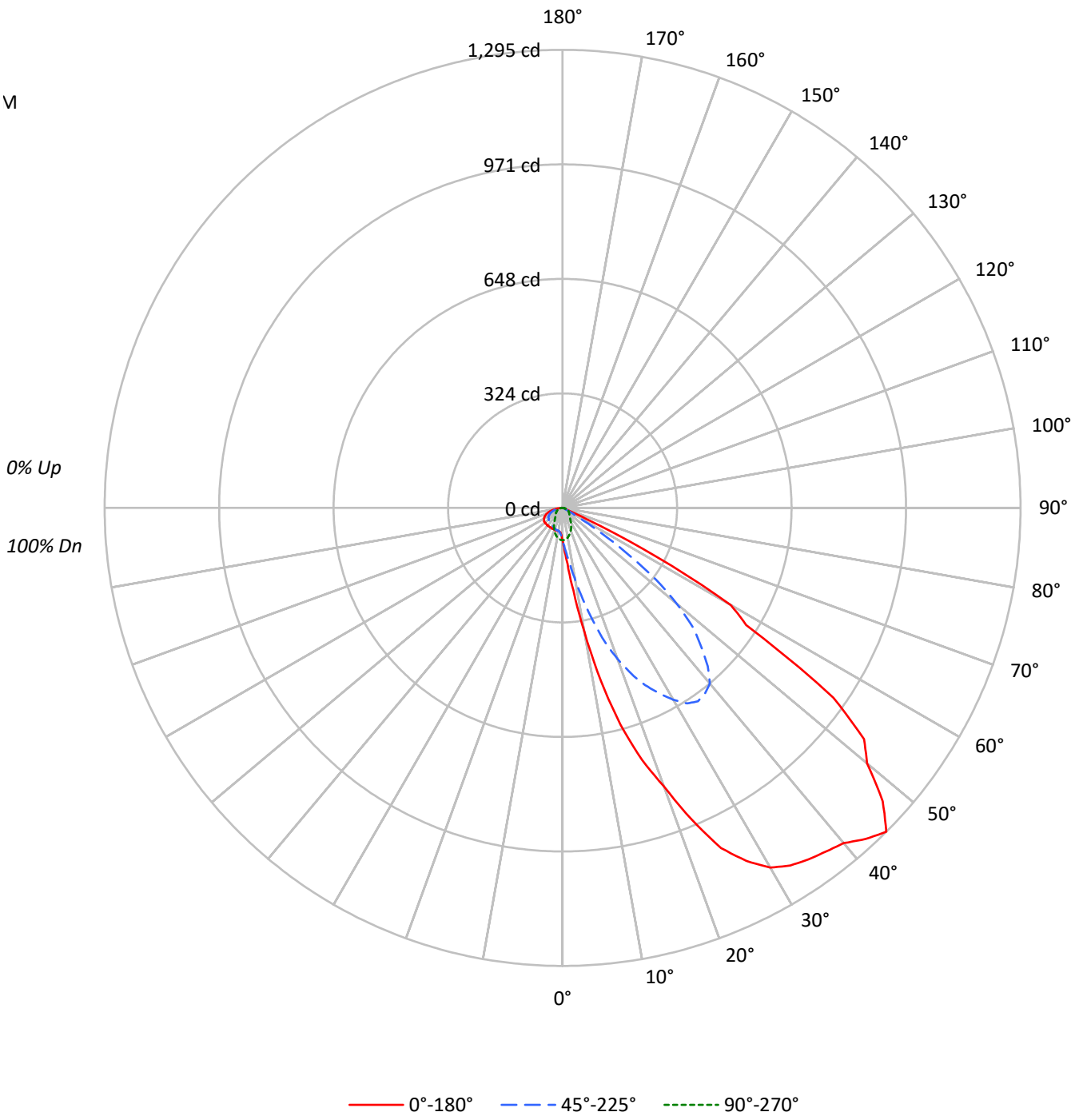
Luminous Intensity Polar Plot



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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	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15724	15724	15724	15724	15724
5°	27505	22457	15456	12534	12050
10°	62240	36218	14812	11525	11682
15°	113148	58250	13765	11589	11910
20°	153402	83170	12426	11565	12078
25°	201637	105028	10908	11269	12352
30°	233488	124510	9367	11236	12926
35°	254964	140339	7926	11479	13666
40°	278126	145639	6992	12073	14613
45°	315312	135054	6649	12836	15831
50°	301208	112772	6564	13611	17416
55°	280714	63325	6786	14713	19217
60°	189066	13606	6820	15569	20770
65°	29178	3464	6520	16097	22617
70°	3323	3323	6143	16617	24170
75°	3127	3127	5656	16303	24421
80°	2777	3769	5554	14976	24299
85°	1778	3754	5533	14820	22329

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 315312 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	1.2
10°-20°	59.7	6.4
20°-30°	140.3	14.9
30°-40°	211.9	22.6
40°-50°	243.6	25.9
50°-60°	193.4	20.6
60°-70°	57.9	6.2
70°-80°	15.7	1.7
80°-90°	5.3	0.6
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°	211.1	22.5
0°-40°	423.0	45.0
0°-60°	860.0	91.6
0°-90°	939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	939.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	91	91	91	91	91	
5°	159	130	89	72	70	21
15°	635	327	77	65	67	183
25°	1061	553	57	59	65	484
35°	1213	668	38	55	65	761
45°	1295	554	27	53	65	962
55°	935	211	23	49	64	770
65°	72	8	16	40	56	160
75°	5	5	8	24	37	5
85°	1	2	3	8	11	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	*91.3*	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3
2.5°	*115.8*	116.7	115.8	115.8	114.9	113.9	107.3	99.8	91.3	84.7	80.0
5°	*159.1*	160.1	157.2	157.2	155.3	152.5	129.9	108.3	89.4	79.1	72.5
7.5°	*235.4*	239.1	234.4	228.8	218.4	216.5	161.9	116.7	87.6	73.4	67.8
10°	*355.9*	353.1	348.4	337.1	319.2	310.7	207.1	125.2	84.7	69.7	65.9
12.5°	*501.8*	494.3	488.6	467.9	443.4	429.3	263.6	132.8	81.0	65.9	65.0
15°	*634.6*	628.9	615.7	596.0	565.8	554.5	326.7	137.5	77.2	63.1	65.0
17.5°	*746.6*	741.0	733.4	713.7	682.6	665.6	397.3	140.3	72.5	61.2	64.0
20°	*837.0*	833.2	822.9	806.9	775.8	759.8	453.8	140.3	67.8	59.3	63.1
22.5°	*953.7*	945.3	932.1	908.5	869.9	845.5	507.5	137.5	63.1	57.4	61.2
25°	*1061.1*	1055.4	1038.5	1010.2	968.8	944.3	552.7	131.8	57.4	54.6	59.3
27.5°	*1125.1*	1121.3	1105.3	1076.1	1030.0	1011.2	590.3	123.3	51.8	51.8	58.4
30°	*1174.1*	1166.5	1150.5	1122.3	1075.2	1052.6	626.1	113.0	47.1	49.0	56.5
32.5°	*1198.5*	1195.7	1181.6	1157.1	1111.0	1085.6	655.3	99.8	41.4	47.1	55.5
35°	*1212.7*	1209.8	1198.5	1175.0	1131.7	1107.2	667.5	87.6	37.7	45.2	54.6
37.5°	*1224.0*	1221.1	1207.0	1183.5	1140.2	1114.7	661.9	74.4	33.9	43.3	53.7
40°	*1237.1*	1226.8	1205.1	1181.6	1142.0	1117.6	647.8	62.1	31.1	42.4	53.7
42.5°	*1269.1*	1233.4	1199.5	1177.8	1140.2	1111.9	607.3	49.0	28.2	40.5	52.7
45°	*1294.6*	*1231.5*	*1188.2*	*1171.2*	*1132.6*	*1100.6*	*554.5*	*35.8*	*27.3*	*39.5*	*52.7*
47.5°	*1227.7*	1189.1	1169.3	1159.9	1118.5	1083.7	499.9	24.5	26.4	38.6	51.8
50°	*1124.2*	1119.4	1111.9	1112.9	1075.2	1047.0	420.9	16.9	24.5	37.7	50.8
52.5°	*1074.3*	1068.6	1055.4	1046.0	1008.3	983.9	333.3	13.2	23.5	36.7	49.9
55°	*934.9*	938.7	924.6	930.2	918.9	906.7	210.9	12.2	22.6	34.8	49.0
57.5°	*615.7*	634.6	667.5	707.1	742.8	767.3	113.9	12.2	20.7	33.9	47.1
60°	*548.9*	544.2	543.2	550.8	566.8	580.0	39.5	11.3	19.8	31.1	45.2
62.5°	*300.3*	298.5	326.7	374.7	403.0	405.8	11.3	11.3	17.9	29.2	42.4
65°	*71.6*	74.4	82.9	103.6	122.4	134.6	8.5	10.4	16.0	27.3	39.5
67.5°	*11.3*	12.2	12.2	15.1	16.9	16.9	7.5	9.4	14.1	24.5	36.7
70°	*6.6*	6.6	6.6	6.6	6.6	6.6	6.6	8.5	12.2	21.7	33.0
72.5°	*5.6*	5.6	5.6	5.6	5.6	5.6	6.6	7.5	10.4	18.8	28.2
75°	*4.7*	4.7	4.7	4.7	4.7	4.7	4.7	6.6	8.5	15.1	24.5
77.5°	*3.8*	3.8	3.8	3.8	3.8	3.8	4.7	5.6	7.5	12.2	19.8
80°	*2.8*	2.8	2.8	2.8	2.8	2.8	3.8	4.7	5.6	9.4	15.1
82.5°	*1.9*	1.9	1.9	1.9	1.9	1.9	2.8	3.8	4.7	7.5	11.3
85°	*0.9*	0.9	0.9	0.9	1.9	1.9	1.9	2.8	2.8	4.7	7.5
87.5°	*0.9*	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	2.8	3.8
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):

	157.5°	180°
0°	91.3	91.3
2.5°	77.2	76.3
5°	69.7	69.7
7.5°	66.8	66.8
10°	65.9	66.8
12.5°	65.9	66.8
15°	65.9	66.8
17.5°	65.9	66.8
20°	65.0	65.9
22.5°	64.0	65.0
25°	63.1	65.0
27.5°	62.1	65.0
30°	62.1	65.0
32.5°	62.1	65.0
35°	61.2	65.0
37.5°	61.2	65.0
40°	61.2	65.0
42.5°	61.2	65.0
45°	*61.2*	*65.0*
47.5°	61.2	65.0
50°	61.2	65.0
52.5°	60.3	65.0
55°	60.3	64.0
57.5°	58.4	62.1
60°	56.5	60.3
62.5°	54.6	58.4
65°	51.8	55.5
67.5°	49.0	51.8
70°	44.3	48.0
72.5°	39.5	42.4
75°	33.9	36.7
77.5°	28.2	31.1
80°	22.6	24.5
82.5°	16.0	17.9
85°	10.4	11.3
87.5°	4.7	4.7
90°	0.0	0.0

(END OF REPORT)