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: P1317552

Luminaire Tested: LDSQA3D13R659827DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1317552
	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:	LDSQA3D13R659827DE010 3LSQCA45R 1MB
Description:	3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	674.0 lumens
Efficiency:	N/A
Efficacy:	46.5 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):	14.5
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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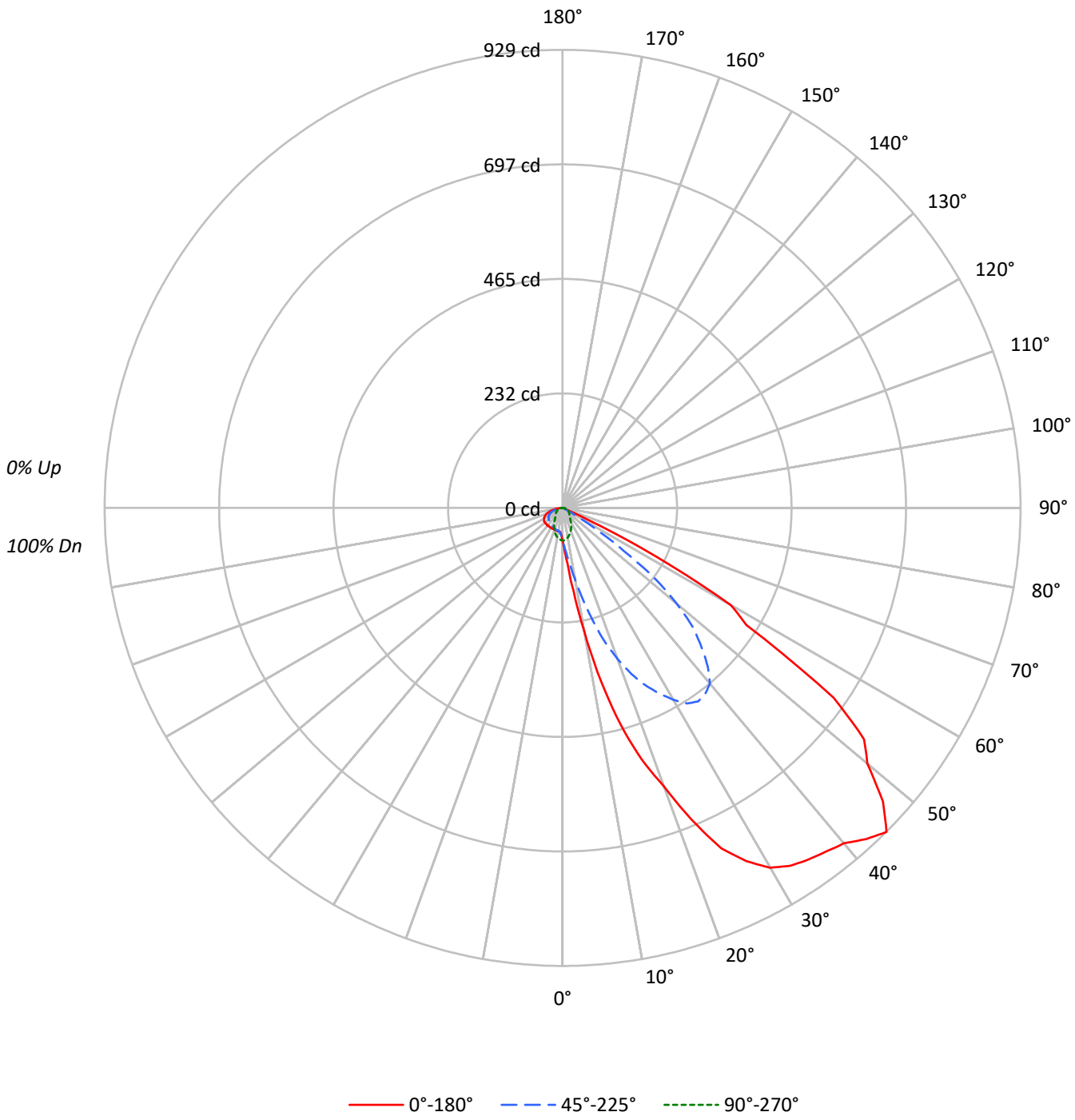
Luminous Intensity Polar Plot



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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	64	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°	11298	11298	11298	11298	11298
5°	19743	16130	11099	8990	8644
10°	44682	26005	10633	8272	8394
15°	81215	41811	9878	8309	8558
20°	110112	59693	8926	8302	8669
25°	144724	75384	7829	8095	8855
30°	167584	89370	6722	8054	9267
35°	182997	100728	5677	8242	9797
40°	199641	104519	5014	8656	10477
45°	226316	96937	4774	9207	11350
50°	216193	80942	4716	9779	12486
55°	201505	45460	4864	10539	13812
60°	135711	9782	4891	11160	14914
65°	20946	2486	4686	11573	16260
70°	2367	2367	4431	11934	17372
75°	2262	2262	4059	11711	17567
80°	1984	2678	4066	10711	17456
85°	1383	2766	3952	10671	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 226316 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	42.9	6.4
20°-30°	100.7	14.9
30°-40°	152.1	22.6
40°-50°	174.9	25.9
50°-60°	138.8	20.6
60°-70°	41.6	6.2
70°-80°	11.3	1.7
80°-90°	3.8	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°	151.5	22.5
0°-40°	303.6	45.0
0°-60°	617.3	91.6
0°-90°	674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	674.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	66	66	66	66	66	
5°	114	93	64	52	50	15
15°	456	234	55	47	48	131
25°	762	397	41	43	47	348
35°	870	479	27	39	47	546
45°	929	398	20	38	47	690
55°	671	151	16	35	46	553
65°	51	6	12	28	40	115
75°	3	3	6	18	26	4
85°	1	1	2	5	8	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°	*65.6*	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6	65.6
2.5°	*83.1*	83.8	83.1	83.1	82.4	81.8	77.0	71.6	65.6	60.8	57.4
5°	*114.2*	114.9	112.9	112.9	111.5	109.5	93.3	77.7	64.2	56.8	52.0
7.5°	*168.9*	171.7	168.3	164.2	156.8	155.4	116.2	83.8	62.8	52.7	48.7
10°	*255.5*	253.4	250.0	241.9	229.1	223.0	148.7	89.9	60.8	50.0	47.3
12.5°	*360.2*	354.8	350.7	335.9	318.3	308.2	189.2	95.3	58.1	47.3	46.6
15°	*455.5*	451.4	442.0	427.8	406.2	398.0	234.5	98.7	55.4	45.3	46.6
17.5°	*535.9*	531.9	526.4	512.3	490.0	477.8	285.2	100.7	52.0	43.9	46.0
20°	*600.8*	598.1	590.6	579.2	556.9	545.4	325.7	100.7	48.7	42.6	45.3
22.5°	*684.6*	678.5	669.0	652.1	624.4	606.9	364.3	98.7	45.3	41.2	43.9
25°	*761.6*	757.6	745.4	725.1	695.4	677.8	396.7	94.6	41.2	39.2	42.6
27.5°	*807.6*	804.9	793.4	772.4	739.3	725.8	423.7	88.5	37.2	37.2	41.9
30°	*842.7*	837.3	825.8	805.5	771.8	755.5	449.4	81.1	33.8	35.1	40.5
32.5°	*860.3*	858.3	848.1	830.6	797.4	779.2	470.4	71.6	29.7	33.8	39.9
35°	*870.4*	868.4	860.3	843.4	812.3	794.7	479.1	62.8	27.0	32.4	39.2
37.5°	*878.5*	876.5	866.4	849.5	818.4	800.1	475.1	53.4	24.3	31.1	38.5
40°	*888.0*	880.6	865.0	848.1	819.7	802.2	464.9	44.6	22.3	30.4	38.5
42.5°	*911.0*	885.3	861.0	845.4	818.4	798.1	435.9	35.1	20.3	29.1	37.8
45°	*929.2*	*883.9*	*852.9*	*840.7*	*813.0*	*790.0*	*398.0*	*25.7*	*19.6*	*28.4*	*37.8*
47.5°	*881.2*	853.5	839.3	832.6	802.8	777.8	358.8	17.6	18.9	27.7	37.2
50°	*806.9*	803.5	798.1	798.8	771.8	751.5	302.1	12.2	17.6	27.0	36.5
52.5°	*771.1*	767.0	757.6	750.8	723.8	706.2	239.2	9.5	16.9	26.4	35.8
55°	*671.1*	673.8	663.6	667.7	659.6	650.8	151.4	8.8	16.2	25.0	35.1
57.5°	*442.0*	455.5	479.1	507.5	533.2	550.8	81.8	8.8	14.9	24.3	33.8
60°	*394.0*	390.6	389.9	395.3	406.8	416.3	28.4	8.1	14.2	22.3	32.4
62.5°	*215.6*	214.2	234.5	269.0	289.2	291.3	8.1	8.1	12.8	20.9	30.4
65°	*51.4*	53.4	59.5	74.3	87.9	96.6	6.1	7.4	11.5	19.6	28.4
67.5°	*8.1*	8.8	8.8	10.8	12.2	12.2	5.4	6.8	10.1	17.6	26.4
70°	*4.7*	4.7	4.7	4.7	4.7	4.7	4.7	6.1	8.8	15.5	23.7
72.5°	*4.1*	4.1	4.1	4.1	4.1	4.1	4.7	5.4	7.4	13.5	20.3
75°	*3.4*	3.4	3.4	3.4	3.4	3.4	3.4	4.7	6.1	10.8	17.6
77.5°	*2.7*	2.7	2.7	2.7	2.7	2.7	3.4	4.1	5.4	8.8	14.2
80°	*2.0*	2.0	2.0	2.0	2.0	2.0	2.7	3.4	4.1	6.8	10.8
82.5°	*1.4*	1.4	1.4	1.4	1.4	1.4	2.0	2.7	3.4	5.4	8.1
85°	*0.7*	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.0	3.4	5.4
87.5°	*0.7*	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.0	2.7
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):

	157.5°	180°
0°	65.6	65.6
2.5°	55.4	54.7
5°	50.0	50.0
7.5°	48.0	48.0
10°	47.3	48.0
12.5°	47.3	48.0
15°	47.3	48.0
17.5°	47.3	48.0
20°	46.6	47.3
22.5°	46.0	46.6
25°	45.3	46.6
27.5°	44.6	46.6
30°	44.6	46.6
32.5°	44.6	46.6
35°	43.9	46.6
37.5°	43.9	46.6
40°	43.9	46.6
42.5°	43.9	46.6
45°	*43.9*	*46.6*
47.5°	43.9	46.6
50°	43.9	46.6
52.5°	43.3	46.6
55°	43.3	46.0
57.5°	41.9	44.6
60°	40.5	43.3
62.5°	39.2	41.9
65°	37.2	39.9
67.5°	35.1	37.2
70°	31.8	34.5
72.5°	28.4	30.4
75°	24.3	26.4
77.5°	20.3	22.3
80°	16.2	17.6
82.5°	11.5	12.8
85°	7.4	8.1
87.5°	3.4	3.4
90°	0.0	0.0

(END OF REPORT)