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: P1308867

Luminaire Tested: LDSQA3D05R159030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method:	LM-79-2019
Report Number:	P1308867
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab:	INNOVATION CENTER
Issue Date:	1/29/2026
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	PORTFOLIO
Catalog Number:	LDSQA3D05R159030DE010 3LSQCA30R 1MW
Description:	3in Adjustable LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	515.0 lumens
Efficiency:	N/A
Efficacy:	71.5 lumens/watt
Spacing Criteria (0/90/45):	2.35 / 0.49 / 1.26
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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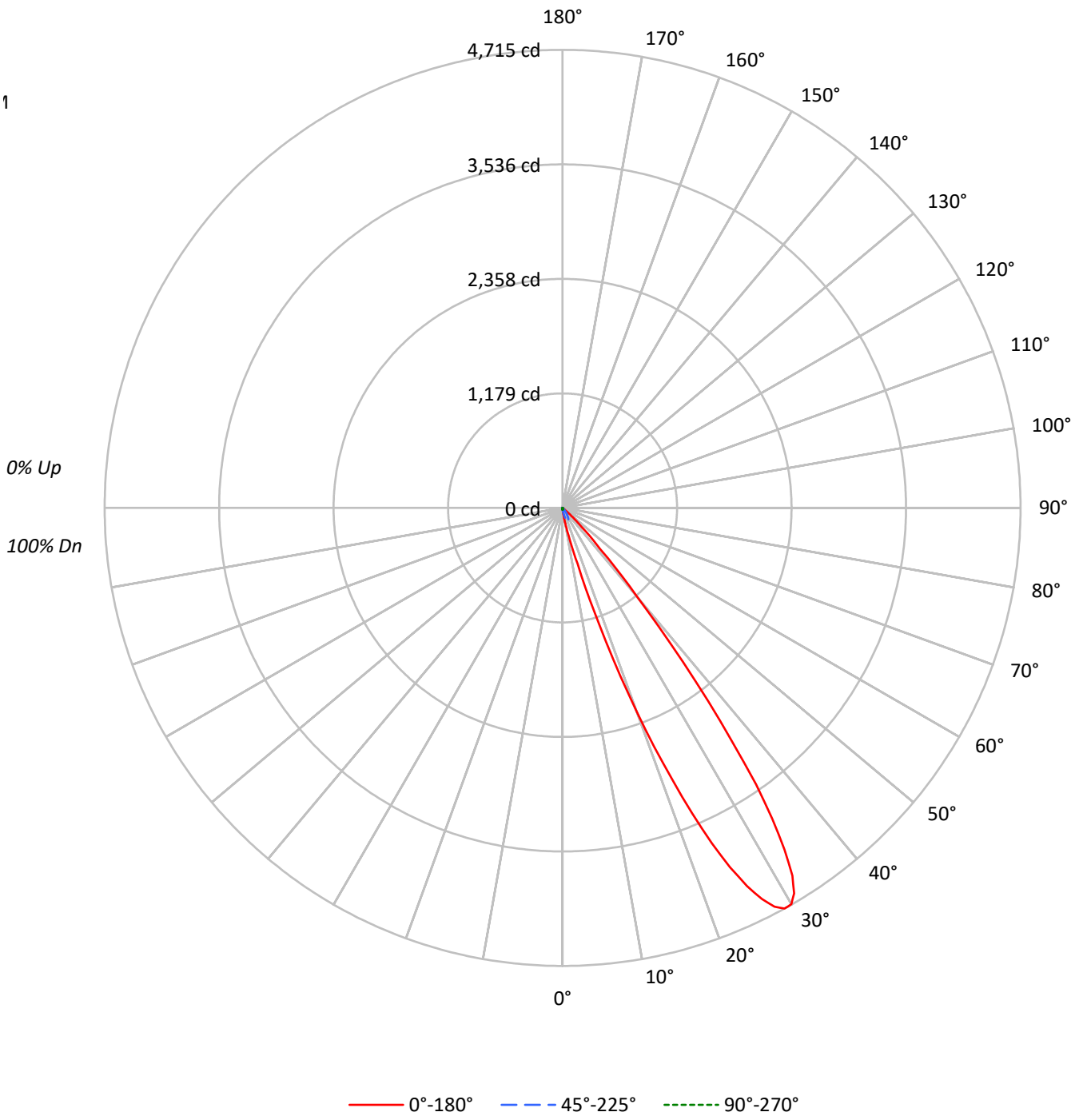
Luminous Intensity Polar Plot



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63	61
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2928	2928	2928	2928	2928
5°	6327	4685	2766	1469	1210
10°	28033	8849	2186	612	437
15°	106016	20451	1516	267	178
20°	407751	28829	916	92	92
25°	775385	27041	475	0	0
30°	936677	21816	199	0	0
35°	730538	14843	105	0	0
40°	266592	7329	112	0	112
45°	68440	2192	122	0	244
50°	11548	268	134	134	402
55°	1501	0	300	450	751
60°	172	172	517	689	1033
65°	204	204	815	1019	1223
70°	252	252	1007	1007	1259
75°	333	333	1331	998	1331
80°	0	496	1488	992	1488
85°	0	988	2964	988	988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 68440 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	39.5	7.7
20°-30°	218.9	42.5
30°-40°	211.5	41.1
40°-50°	36.8	7.1
50°-60°	2.6	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
80°-90°	0.6	0.1
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°	260.7	50.6
0°-40°	472.1	91.7
0°-60°	511.5	99.3
0°-90°	515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	515.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	37	27	16	8	7	7
15°	595	115	8	2	1	265
25°	4080	142	2	0	0	1824
35°	3475	71	0	0	0	1998
45°	281	9	0	0	1	302
55°	5	0	1	2	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	*17.0*	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	*25.0*	24.0	24.5	24.5	24.5	24.5	24.5	23.5	23.5	24.0	21.5
5°	*36.6*	36.6	36.1	36.6	36.6	36.1	35.1	34.6	34.6	33.6	27.1
7.5°	*73.1*	72.1	72.1	71.1	66.1	64.6	63.6	61.1	56.6	55.6	35.1
10°	*160.3*	160.8	157.3	152.8	152.3	144.8	142.3	137.8	129.2	120.7	50.6
12.5°	*291.1*	284.5	276.0	276.5	262.0	257.0	245.5	232.9	219.9	206.4	83.2
15°	*594.6*	576.1	587.1	560.1	529.5	495.0	459.9	415.8	378.2	338.2	114.7
17.5°	*1252.4*	1270.4	1239.9	1124.2	1053.0	969.4	851.6	737.9	640.7	562.6	140.3
20°	*2224.8*	2251.3	2147.6	2046.9	1874.1	1685.7	1489.4	1266.9	1054.0	869.7	157.3
21°	*2631.1*	2615.0	2572.5	2411.1	2211.8	1993.3	1752.9	1507.4	1249.4	1009.9	158.8
22°	*3023.8*	3031.3	2932.2	2763.3	2555.9	2314.0	2020.4	1717.3	1439.3	1124.2	156.3
23°	*3415.1*	3439.1	3307.9	3149.6	2888.6	2615.5	2275.9	1948.8	1605.1	1254.9	151.3
24°	*3777.3*	3760.7	3672.1	3472.7	3193.7	2874.0	2521.4	2124.6	1741.4	1366.6	147.3
25°	*4080.4*	4078.4	3939.1	3745.2	3426.1	3071.9	2683.2	2268.4	1858.1	1442.3	142.3
26°	*4328.3*	4287.8	4178.1	3941.6	3626.5	3252.8	2815.9	2373.1	1923.7	1480.4	137.3
27°	*4519.7*	4490.7	4343.4	4097.4	3768.3	3355.0	2901.1	2425.2	1953.8	1492.9	130.8
28°	*4648.5*	4616.9	4460.1	4206.6	3846.4	3419.1	2946.2	2447.2	1953.8	1480.9	124.7
29°	*4715.1*	*4672.0*	*4515.7*	*4244.2*	*3864.4*	*3426.6*	*2935.2*	*2425.7*	*1923.2*	*1443.8*	*117.7*
30°	*4710.1*	4656.5	4492.7	4210.1	3810.8	3365.0	2873.5	2348.0	1854.1	1388.7	109.7
31°	*4628.9*	4568.8	4386.0	4094.9	3700.1	3248.8	2757.3	2243.8	1759.4	1317.0	101.7
32°	*4464.1*	4388.0	4209.6	3919.6	3529.8	3074.9	2588.5	2083.0	1617.6	1212.3	93.2
33°	*4195.6*	4118.9	3927.6	3655.5	3299.4	2854.5	2364.6	1910.2	1456.3	1087.6	86.2
34°	*3859.4*	3789.3	3624.5	3350.5	3008.8	2575.5	2107.1	1671.2	1289.0	963.9	78.7
35°	*3474.7*	3363.0	3213.7	2996.8	2663.6	2227.8	1829.0	1448.8	1116.7	834.1	70.6
36°	*2954.2*	2974.2	2815.9	2550.4	2274.4	1932.7	1550.0	1207.8	933.8	710.9	63.6
37°	*2492.8*	2461.2	2360.5	2155.2	1914.7	1575.5	1299.0	1024.0	785.5	601.2	56.1
38°	*2010.9*	2017.9	1919.2	1761.4	1522.9	1295.5	1045.5	841.1	657.3	511.5	49.1
39°	*1574.0*	1568.5	1542.0	1395.7	1179.8	1030.5	847.1	697.3	547.6	431.3	41.6
40°	*1185.8*	1194.8	1132.7	1044.5	918.8	796.0	674.8	556.1	452.9	363.7	32.6
42.5°	*576.6*	590.6	549.6	527.0	471.4	423.3	357.2	291.6	248.0	214.4	14.5
45°	*281.0*	273.0	269.5	258.5	245.5	219.4	194.4	166.8	145.8	125.7	9.0
47.5°	*143.8*	139.8	139.8	135.3	130.8	122.2	109.7	100.7	90.7	78.2	3.5
50°	*43.1*	42.6	42.1	42.6	41.1	42.6	43.6	44.1	40.1	39.6	1.0
52.5°	*17.0*	17.5	17.0	18.5	18.5	18.0	18.5	18.0	17.5	15.5	0.0
55°	*5.0*	5.0	5.0	5.0	5.0	5.0	5.5	6.0	5.5	6.0	0.0
57.5°	*1.0*	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	*0.5*	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5

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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	*0.0*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	20.0	17.5	14.5	12.0	11.0	10.5
5°	21.5	16.0	11.0	8.5	7.5	7.0
7.5°	23.0	14.5	8.5	6.0	4.5	4.0
10°	24.0	12.5	6.5	3.5	2.5	2.5
12.5°	24.0	10.0	4.5	2.0	1.5	1.5
15°	23.5	8.5	3.0	1.5	1.0	1.0
17.5°	23.0	6.5	2.0	1.0	0.5	1.0
20°	21.5	5.0	1.0	0.5	0.5	0.5
21°	21.0	4.5	1.0	0.5	0.5	0.5
22°	20.0	4.0	0.5	0.0	0.5	0.5
23°	19.0	3.0	0.5	0.0	0.0	0.0
24°	17.5	2.5	0.5	0.0	0.0	0.0
25°	16.5	2.5	0.5	0.0	0.0	0.0
26°	15.5	1.5	0.0	0.0	0.0	0.0
27°	14.0	1.0	0.0	0.0	0.0	0.0
28°	13.0	1.0	0.0	0.0	0.0	0.0
29°	*11.5*	*1.0*	*0.0*	*0.0*	*0.0*	*0.0*
30°	10.0	1.0	0.0	0.0	0.0	0.0
31°	8.0	0.5	0.0	0.0	0.0	0.0
32°	6.5	0.5	0.0	0.0	0.0	0.0
33°	4.5	0.5	0.0	0.0	0.0	0.0
34°	3.0	0.5	0.0	0.0	0.0	0.0
35°	2.5	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	2.0
55°	0.5	1.0	1.0	1.5	2.0	2.5
57.5°	0.5	1.5	1.5	2.0	2.5	2.5
60°	1.0	1.5	2.0	2.0	3.0	3.0
62.5°	1.0	2.0	2.0	2.0	3.0	3.0
65°	1.0	2.0	2.0	2.5	3.0	3.0
67.5°	1.0	2.0	2.0	2.0	2.5	3.0
70°	1.0	2.0	1.5	2.0	2.5	2.5
72.5°	1.0	2.0	1.5	1.5	2.0	2.5
75°	1.0	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)