

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: P1323829

Luminaire Tested: LDSQA3D09R659030D2WDE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

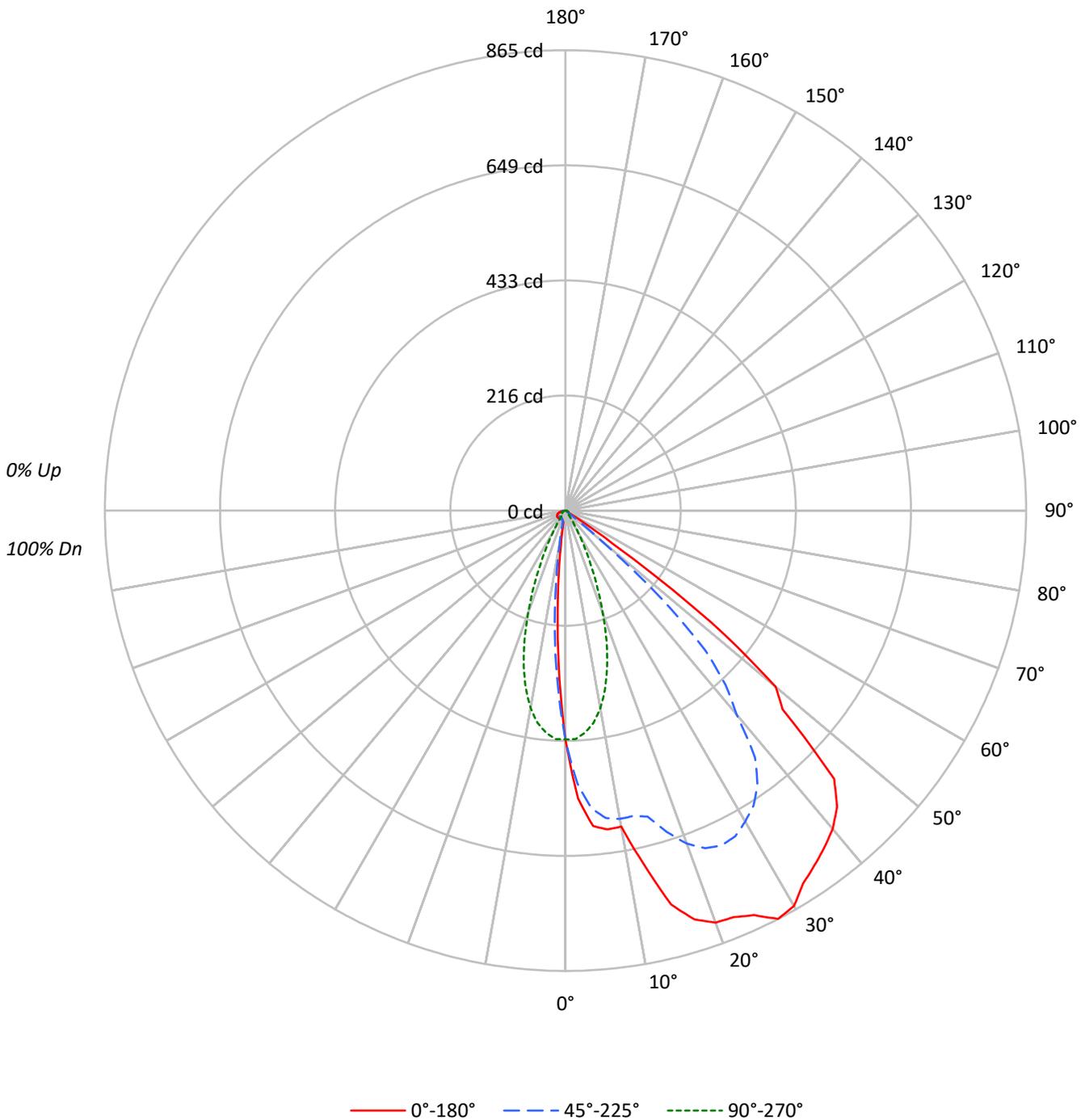
Test Method: LM-79-2019  
Report Number: P1323829  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R659030D2WDE010 3LSQCA30R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R65 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 644.0 lumens  
Efficiency: N/A  
Efficacy: 43.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.7  
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	
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	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	74004	74004	74004	74004	74004
5°	102864	97072	72420	39797	28007
10°	105452	102882	65895	11122	4092
15°	136630	106087	53935	3584	3459
20°	150982	122043	37535	3189	3317
25°	159356	131879	21245	3059	3306
30°	170627	134155	9585	3063	3460
35°	171245	132118	3091	3238	3805
40°	175428	112253	2113	3462	4204
45°	173755	90458	2119	3751	4555
50°	137904	21327	2143	4126	5198
55°	32758	1201	2222	4624	5825
60°	1137	1378	2549	4857	6234
65°	1345	1345	2445	5175	6805
70°	1007	1360	2367	5035	7100
75°	865	1331	2196	5323	7120
80°	694	1289	2678	5356	7339
85°	1383	2569	2569	5335	6521

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 174096 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	5.6
10°-20°	94.4	14.7
20°-30°	148.3	23.0
30°-40°	169.7	26.3
40°-50°	136.4	21.2
50°-60°	44.4	6.9
60°-70°	7.9	1.2
70°-80°	5.2	0.8
80°-90°	1.9	0.3
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°	278.6	43.3
0°-40°	448.3	69.6
0°-60°	629.1	97.7
0°-90°	644.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	644.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	430	430	430	430	430	
5°	595	562	419	230	162	56
15°	766	595	302	20	19	214
25°	839	694	112	16	17	391
35°	814	628	15	15	18	511
45°	713	371	9	15	19	513
55°	109	4	7	15	19	156
65°	3	3	6	13	17	3
75°	1	2	3	8	11	2
85°	1	1	1	3	3	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	540.8	538.7	541.4	536.7	536.1	531.4	528.7	527.4	521.3	513.3	506.0
5°	595.0	586.9	588.9	588.3	584.9	582.9	580.2	576.9	568.9	561.5	552.1
7.5°	604.3	597.6	599.0	599.6	597.6	597.0	596.3	595.0	589.6	582.9	574.9
10°	603.0	596.3	595.6	593.6	591.6	592.3	592.3	592.3	590.9	588.3	585.6
12.5°	680.6	671.3	669.2	655.2	642.5	620.4	606.3	593.0	586.9	587.6	585.6
15°	766.3	765.6	758.9	745.5	724.1	704.0	671.9	647.8	617.0	595.0	585.6
17.5°	805.1	804.4	798.4	787.0	771.6	752.9	729.5	701.4	667.2	633.1	605.0
20°	823.8	828.5	821.8	812.5	797.7	780.3	758.3	732.8	700.7	665.9	632.4
22.5°	826.5	832.5	826.5	819.8	809.1	797.7	779.0	752.9	720.1	686.6	653.9
25°	838.6	840.6	827.9	819.2	809.1	801.1	786.4	763.6	730.1	694.0	661.9
27.5°	864.7	856.0	829.2	817.2	807.8	800.4	786.4	762.9	726.8	690.0	656.5
30°	858.0	854.6	831.2	819.8	811.8	804.4	787.0	756.9	713.4	674.6	639.8
32.5°	830.5	837.2	829.2	825.2	821.2	811.8	786.4	745.5	696.7	657.2	610.4
35°	814.5	822.5	823.2	823.2	818.5	804.4	774.3	728.8	680.0	628.4	565.5
37.5°	798.4	805.1	809.1	811.8	805.1	785.0	746.9	706.1	652.5	584.9	474.5
40°	780.3	785.0	788.4	789.7	779.7	753.6	718.8	672.6	612.4	499.3	423.6
42.5°	754.9	757.6	756.9	756.2	745.5	716.8	684.0	635.8	516.7	445.0	353.4
45°	713.4	710.7	714.8	714.8	700.7	679.3	635.8	542.1	462.4	371.4	227.5
47.5°	552.8	554.8	574.2	605.7	625.1	619.1	560.2	474.5	388.8	243.6	75.6
50°	514.7	512.6	513.3	516.7	518.7	501.9	459.8	400.9	257.0	79.6	5.4
52.5°	345.3	347.3	362.7	398.2	409.6	397.5	357.4	267.7	93.7	5.4	4.7
55°	109.1	116.4	125.1	143.9	176.7	197.4	193.4	95.0	6.0	4.0	4.7
57.5°	4.0	4.0	5.4	9.4	18.1	29.4	30.8	6.0	4.7	4.7	4.7
60°	3.3	3.3	3.3	3.3	3.3	3.3	4.0	4.0	4.0	4.0	4.0
62.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0	4.0	4.0	4.0
65°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	3.3	3.3	3.3
70°	2.0	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7
75°	1.3	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.0
80°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	0.7	0.7
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	429.7	429.7	429.7	429.7	429.7	429.7	429.7	429.7
2.5°	501.9	493.9	477.8	429.7	379.5	329.3	297.8	289.8
5°	541.4	532.1	509.3	418.9	317.2	230.2	180.7	162.0
7.5°	565.5	554.1	527.4	402.2	247.0	133.8	80.3	64.2
10°	576.2	566.2	536.1	376.8	178.7	63.6	28.1	23.4
12.5°	580.9	572.9	539.4	343.3	116.4	28.1	20.7	20.1
15°	582.9	574.2	538.1	302.5	66.3	20.1	19.4	19.4
17.5°	584.9	574.9	530.0	255.7	36.8	18.7	18.1	18.7
20°	601.0	572.2	516.0	204.8	24.1	17.4	17.4	18.1
22.5°	617.0	571.5	491.2	156.6	18.7	16.7	17.4	17.4
25°	622.4	564.8	459.8	111.8	16.1	16.1	16.7	17.4
27.5°	612.4	545.4	417.6	75.6	14.1	16.1	16.7	17.4
30°	588.9	512.6	366.7	48.2	13.4	15.4	16.7	17.4
32.5°	545.4	447.7	309.9	28.8	12.7	15.4	17.4	17.4
35°	458.4	375.4	245.6	14.7	12.7	15.4	17.4	18.1
37.5°	400.9	313.2	171.3	10.0	12.7	15.4	17.4	18.1
40°	332.6	226.2	71.6	9.4	12.7	15.4	17.4	18.7
42.5°	230.2	98.4	11.4	8.7	12.0	15.4	18.1	18.7
45°	83.0	12.7	5.4	8.7	12.0	15.4	18.1	18.7
47.5°	7.4	4.7	5.4	8.7	12.0	15.4	18.1	19.4
50°	4.7	4.7	4.7	8.0	12.0	15.4	18.1	19.4
52.5°	4.7	4.7	4.7	8.0	11.4	15.4	18.7	19.4
55°	4.7	4.7	4.7	7.4	11.4	15.4	18.1	19.4
57.5°	4.7	4.7	5.4	7.4	11.4	14.7	18.1	18.7
60°	4.7	4.7	4.7	7.4	10.7	14.1	17.4	18.1
62.5°	4.0	4.7	4.7	6.7	10.0	13.4	16.7	17.4
65°	4.0	4.0	4.7	6.0	9.4	12.7	15.4	16.7
67.5°	3.3	4.0	4.0	5.4	8.0	11.4	14.1	15.4
70°	3.3	3.3	3.3	4.7	7.4	10.0	13.4	14.1
72.5°	2.7	3.3	3.3	4.0	6.0	8.7	11.4	12.7
75°	2.7	2.7	2.7	3.3	5.4	8.0	10.0	10.7
77.5°	2.0	2.0	2.7	2.7	4.7	6.0	8.7	9.4
80°	2.0	2.0	2.0	2.7	3.3	5.4	6.7	7.4
82.5°	1.3	1.3	1.3	2.0	2.7	3.3	4.7	5.4
85°	1.3	1.3	1.3	1.3	2.0	2.7	3.3	3.3
87.5°	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)