

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: P1307233

Luminaire Tested: LDSQA3D13R709024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

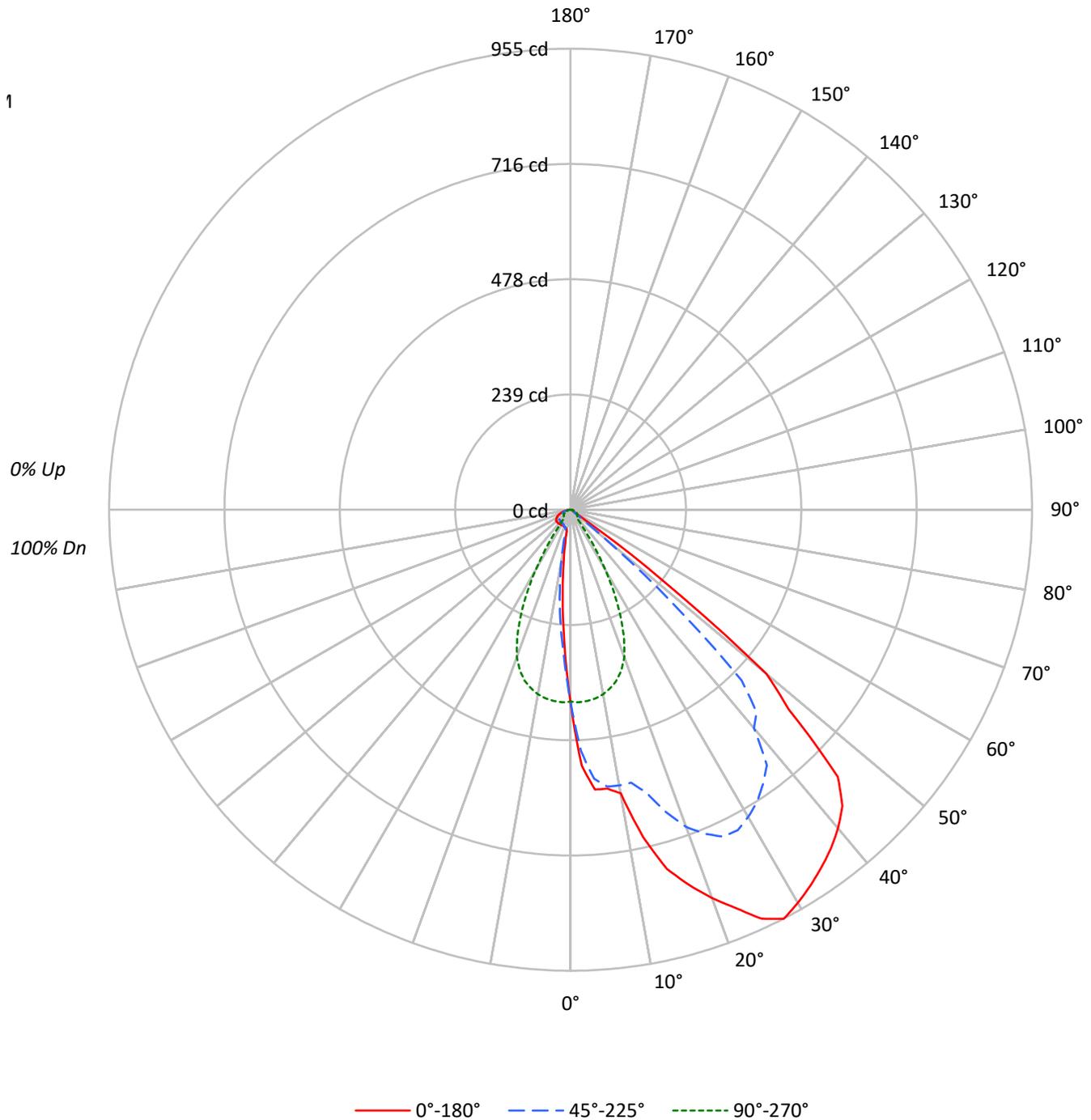
Test Method: LM-79-2019  
Report Number: P1307233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 755.0 lumens  
Efficiency: N/A  
Efficacy: 51.7 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
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				
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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	68458	68458	68458	68458	68458
5°	100565	96709	68720	41025	32138
10°	104281	101430	67871	19621	7940
15°	137325	108138	65382	7025	6882
20°	156847	128128	59510	6745	6909
25°	177618	141950	46728	6518	6841
30°	187053	146166	28955	6483	7318
35°	190209	145889	9545	6665	7737
40°	193571	132712	4631	7127	8476
45°	190512	121853	4798	7502	9182
50°	141628	22506	4823	8252	10101
55°	11320	3093	5134	8738	10809
60°	2377	3238	5029	8852	11229
65°	2445	3138	4890	8721	11533
70°	2165	3021	4733	8208	11229
75°	1730	2861	3993	7985	10846
80°	1686	2579	4265	7637	10215
85°	1778	3359	5138	6719	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 192802 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	4.8
10°-20°	101.7	13.5
20°-30°	170.8	22.6
30°-40°	205.4	27.2
40°-50°	162.8	21.6
50°-60°	52.1	6.9
60°-70°	14.6	1.9
70°-80°	8.7	1.1
80°-90°	2.7	0.4
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°	308.7	40.9
0°-40°	514.1	68.1
0°-60°	729.0	96.6
0°-90°	755.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	755.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	398	398	398	398	398	
5°	582	559	398	237	186	55
15°	770	606	367	39	39	217
25°	935	747	246	34	36	427
35°	905	694	45	32	37	567
45°	782	500	20	31	38	562
55°	38	10	17	29	36	118
65°	6	8	12	21	28	6
75°	3	4	6	12	16	3
85°	1	2	3	3	4	1
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°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
2.5°	530.3	533.7	533.7	529.4	531.1	524.3	519.2	511.4	509.7	500.3	488.3
5°	581.7	580.0	580.0	576.6	578.3	575.7	573.1	571.4	566.3	559.4	552.6
7.5°	582.6	584.3	585.1	584.3	587.7	585.1	585.1	585.1	581.7	578.3	571.4
10°	596.3	593.7	591.1	585.1	581.7	579.1	579.1	580.0	581.7	580.0	575.7
12.5°	694.8	685.4	681.1	666.5	655.4	636.5	615.1	598.8	584.3	579.1	575.7
15°	770.2	768.5	759.9	746.2	732.5	710.2	685.4	660.5	634.0	606.5	586.8
17.5°	814.7	811.3	802.7	788.2	771.9	751.3	731.6	712.8	687.1	656.2	624.5
20°	855.8	848.1	837.0	819.9	803.6	783.9	762.5	744.5	723.0	699.1	662.2
22.5°	892.7	885.8	867.8	844.7	828.4	809.6	790.7	773.6	753.9	726.5	693.1
25°	934.7	919.2	890.1	860.1	840.4	825.0	811.3	797.6	777.0	747.0	707.6
27.5°	955.2	933.8	902.1	872.1	853.3	837.0	822.4	808.7	785.6	748.7	703.3
30°	940.6	928.7	906.4	883.2	867.8	852.4	835.3	814.7	777.9	735.0	693.1
32.5°	923.5	917.5	907.2	893.5	884.1	868.7	844.7	811.3	759.9	717.9	672.5
35°	904.7	902.1	898.7	892.7	886.7	872.1	842.1	793.3	741.9	693.9	650.2
37.5°	885.0	882.4	885.0	884.1	879.0	860.1	814.7	769.3	716.2	667.4	582.6
40°	861.0	859.3	863.5	867.8	861.8	837.0	788.2	733.3	686.2	590.3	561.1
42.5°	832.7	831.8	839.6	843.0	834.4	797.6	740.2	699.9	600.5	569.7	501.2
45°	782.2	783.9	787.3	791.6	786.4	746.2	693.9	620.2	576.6	500.3	285.3
47.5°	612.5	614.2	631.4	667.4	692.2	678.5	634.0	579.1	515.7	286.1	90.0
50°	528.6	526.9	527.7	536.3	556.0	574.8	561.1	531.1	307.6	84.0	11.1
52.5°	232.2	257.9	285.3	362.4	412.1	464.3	474.6	332.4	100.2	11.1	11.1
55°	37.7	39.4	49.7	72.8	131.1	197.9	239.9	111.4	10.3	10.3	10.3
57.5°	7.7	7.7	7.7	8.6	12.9	27.4	31.7	9.4	9.4	9.4	10.3
60°	6.9	6.9	6.9	6.9	7.7	7.7	7.7	8.6	8.6	9.4	9.4
62.5°	6.9	6.9	6.9	6.9	6.9	6.9	7.7	7.7	8.6	8.6	9.4
65°	6.0	6.0	6.0	6.0	6.9	6.9	6.9	6.9	7.7	7.7	8.6
67.5°	5.1	5.1	5.1	5.1	6.0	6.0	6.0	6.9	6.9	6.9	7.7
70°	4.3	4.3	4.3	4.3	5.1	5.1	5.1	5.1	6.0	6.0	6.0
72.5°	3.4	3.4	3.4	3.4	4.3	4.3	4.3	4.3	5.1	5.1	5.1
75°	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4	4.3	4.3	4.3
77.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6	2.6	2.6
82.5°	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
2.5°	480.6	468.6	452.3	399.2	350.4	305.8	283.6	281.0
5°	541.4	530.3	502.9	397.5	304.1	237.3	197.0	185.9
7.5°	564.6	555.1	531.1	394.1	260.4	170.5	125.1	107.9
10°	570.6	564.6	544.0	388.1	215.0	112.2	59.1	45.4
12.5°	573.1	568.8	549.1	378.7	169.6	58.3	40.3	40.3
15°	577.4	573.1	554.3	366.7	125.1	39.4	38.6	38.6
17.5°	596.3	582.6	561.1	348.7	82.2	37.7	37.7	37.7
20°	627.1	597.1	564.6	324.7	51.4	36.8	36.8	37.7
22.5°	652.8	612.5	563.7	288.7	37.7	35.1	36.0	36.8
25°	663.9	619.4	556.0	245.9	32.6	34.3	36.0	36.0
27.5°	662.2	622.0	549.1	197.0	30.8	33.4	35.1	36.8
30°	652.8	615.1	533.7	145.6	29.1	32.6	35.1	36.8
32.5°	636.5	588.5	502.9	94.2	28.3	32.6	35.1	36.8
35°	583.4	545.7	458.3	45.4	27.4	31.7	36.0	36.8
37.5°	552.6	500.3	349.5	22.3	26.6	31.7	36.0	36.8
40°	502.9	373.5	157.6	20.6	26.6	31.7	36.0	37.7
42.5°	316.1	153.3	25.7	19.7	25.7	31.7	36.0	37.7
45°	115.7	20.6	13.7	19.7	25.7	30.8	36.0	37.7
47.5°	12.0	12.0	12.9	18.8	24.8	30.8	36.0	37.7
50°	11.1	12.0	12.9	18.0	24.0	30.8	35.1	37.7
52.5°	11.1	12.0	12.9	18.0	23.1	30.0	35.1	37.7
55°	11.1	12.0	12.0	17.1	22.3	29.1	34.3	36.0
57.5°	10.3	11.1	12.0	16.3	21.4	27.4	33.4	35.1
60°	10.3	11.1	12.0	14.6	20.6	25.7	31.7	32.6
62.5°	9.4	10.3	11.1	13.7	18.8	24.0	29.1	30.8
65°	9.4	9.4	10.3	12.0	17.1	21.4	26.6	28.3
67.5°	7.7	8.6	8.6	10.3	14.6	18.8	24.0	25.7
70°	6.9	6.9	7.7	9.4	12.9	16.3	20.6	22.3
72.5°	6.0	6.0	6.0	7.7	11.1	14.6	18.0	19.7
75°	5.1	5.1	5.1	6.0	9.4	12.0	15.4	16.3
77.5°	4.3	4.3	4.3	5.1	7.7	10.3	12.0	13.7
80°	3.4	3.4	3.4	4.3	6.0	7.7	9.4	10.3
82.5°	2.6	2.6	2.6	3.4	4.3	5.1	6.9	6.9
85°	1.7	1.7	1.7	2.6	2.6	3.4	4.3	4.3
87.5°	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)