

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: P1320185

Luminaire Tested: LDSQA3D13R709840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

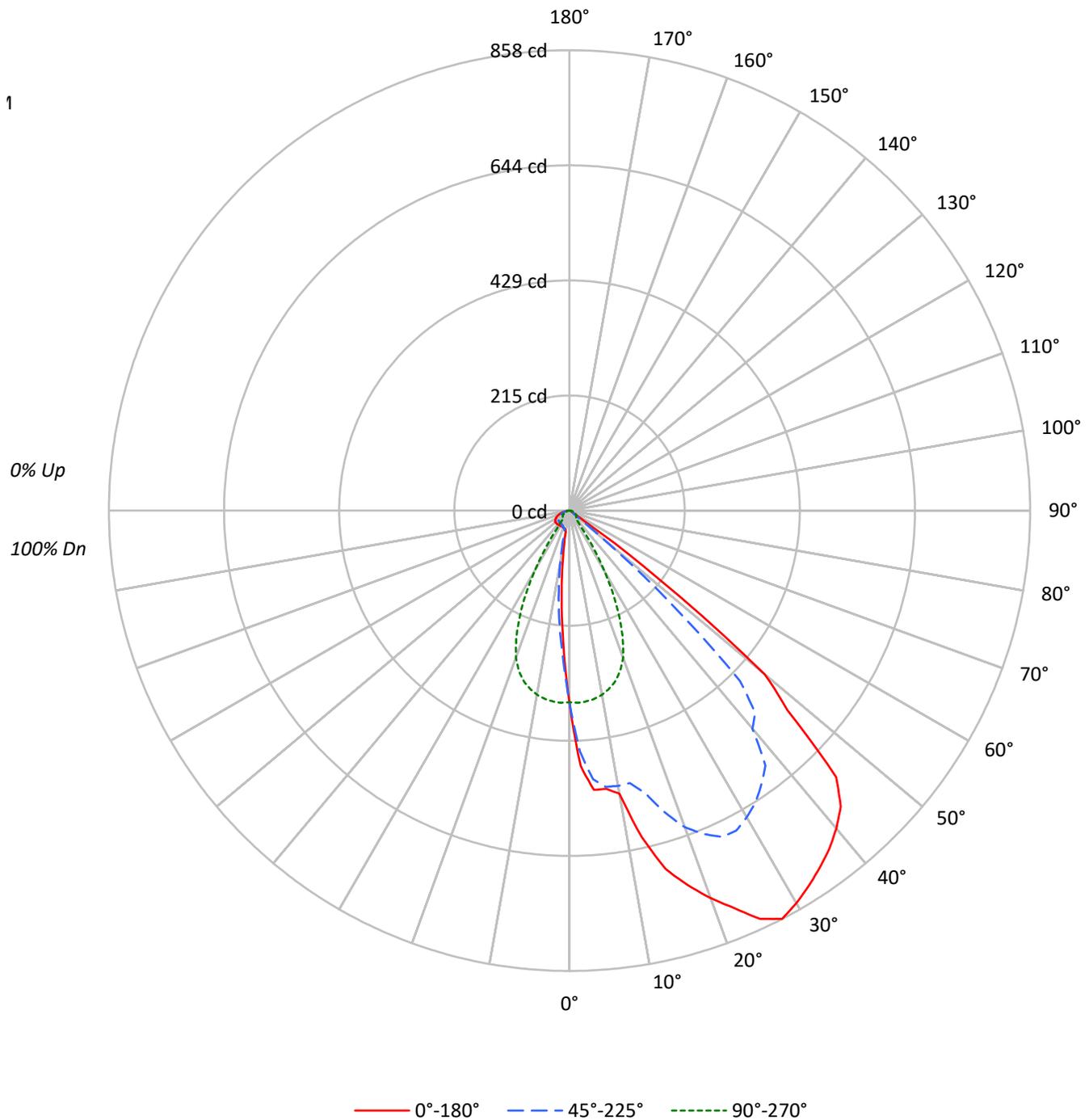
Test Method: LM-79-2019  
Report Number: P1320185  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709840DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 678.0 lumens  
Efficiency: N/A  
Efficacy: 46.8 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): 14.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	61483	61483	61483	61483	61483
5°	90313	86855	61718	36841	28854
10°	93630	91077	60945	17628	7135
15°	123311	97119	58714	6312	6169
20°	140866	115060	53443	6066	6213
25°	159489	127470	41958	5853	6138
30°	167982	131271	26012	5807	6582
35°	170803	131004	8578	5992	6959
40°	173831	119177	4159	6407	7621
45°	171076	109431	4311	6747	8257
50°	127187	20202	4340	7422	9083
55°	10179	2762	4624	7867	9698
60°	2136	2928	4512	7957	10058
65°	2201	2812	4401	7824	10351
70°	1913	2719	4280	7352	10071
75°	1530	2529	3593	7187	9715
80°	1488	2281	3769	6843	9124
85°	1581	2964	4545	6126	7509

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 173147 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.5	4.8
10°-20°	91.4	13.5
20°-30°	153.4	22.6
30°-40°	184.5	27.2
40°-50°	146.2	21.6
50°-60°	46.8	6.9
60°-70°	13.1	1.9
70°-80°	7.8	1.1
80°-90°	2.4	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°	277.2	40.9
0°-40°	461.7	68.1
0°-60°	654.7	96.6
0°-90°	678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	678.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	357	357	357	357	357	
5°	522	502	357	213	167	49
15°	692	545	329	35	35	195
25°	839	671	221	31	32	384
35°	812	623	41	28	33	509
45°	702	449	18	28	34	505
55°	34	9	15	26	32	106
65°	5	7	11	19	25	5
75°	2	4	5	11	15	3
85°	1	2	2	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°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0
2.5°	476.2	479.3	479.3	475.4	477.0	470.8	466.2	459.3	457.7	449.3	438.5
5°	522.4	520.8	520.8	517.8	519.3	517.0	514.7	513.1	508.5	502.4	496.2
7.5°	523.1	524.7	525.4	524.7	527.8	525.4	525.4	525.4	522.4	519.3	513.1
10°	535.4	533.1	530.8	525.4	522.4	520.1	520.1	520.8	522.4	520.8	517.0
12.5°	623.9	615.5	611.6	598.5	588.5	571.6	552.4	537.8	524.7	520.1	517.0
15°	691.6	690.1	682.4	670.1	657.8	637.8	615.5	593.1	569.3	544.7	527.0
17.5°	731.6	728.5	720.9	707.8	693.2	674.7	657.0	640.1	617.0	589.3	560.8
20°	768.6	761.6	751.6	736.2	721.6	703.9	684.7	668.5	649.3	627.8	594.7
22.5°	801.6	795.5	779.3	758.5	743.9	727.0	710.1	694.7	677.0	652.4	622.4
25°	839.3	825.5	799.3	772.4	754.7	740.9	728.5	716.2	697.8	670.8	635.5
27.5°	857.8	838.6	810.1	783.2	766.2	751.6	738.5	726.2	705.5	672.4	631.6
30°	844.7	833.9	813.9	793.2	779.3	765.5	750.1	731.6	698.5	660.1	622.4
32.5°	829.3	823.9	814.7	802.4	793.9	780.1	758.5	728.5	682.4	644.7	603.9
35°	812.4	810.1	807.0	801.6	796.2	783.2	756.2	712.4	666.2	623.1	583.9
37.5°	794.7	792.4	794.7	793.9	789.3	772.4	731.6	690.8	643.2	599.3	523.1
40°	773.2	771.6	775.5	779.3	773.9	751.6	707.8	658.5	616.2	530.1	503.9
42.5°	747.8	747.0	753.9	757.0	749.3	716.2	664.7	628.5	539.3	511.6	450.1
45°	702.4	703.9	707.0	710.9	706.2	670.1	623.1	557.0	517.8	449.3	256.2
47.5°	550.1	551.6	567.0	599.3	621.6	609.3	569.3	520.1	463.1	257.0	80.8
50°	474.7	473.1	473.9	481.6	499.3	516.2	503.9	477.0	276.2	75.4	10.0
52.5°	208.5	231.6	256.2	325.4	370.0	417.0	426.2	298.5	90.0	10.0	10.0
55°	33.9	35.4	44.6	65.4	117.7	177.7	215.4	100.0	9.2	9.2	9.2
57.5°	6.9	6.9	6.9	7.7	11.5	24.6	28.5	8.5	8.5	8.5	9.2
60°	6.2	6.2	6.2	6.2	6.9	6.9	6.9	7.7	7.7	8.5	8.5
62.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.9	6.9	7.7	7.7	8.5
65°	5.4	5.4	5.4	5.4	6.2	6.2	6.2	6.2	6.9	6.9	7.7
67.5°	4.6	4.6	4.6	4.6	5.4	5.4	5.4	6.2	6.2	6.2	6.9
70°	3.8	3.8	3.8	3.8	4.6	4.6	4.6	4.6	5.4	5.4	5.4
72.5°	3.1	3.1	3.1	3.1	3.8	3.8	3.8	3.8	4.6	4.6	4.6
75°	2.3	2.3	3.1	3.1	3.1	3.1	3.1	3.1	3.8	3.8	3.8
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3	2.3
82.5°	0.8	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	357.0	357.0	357.0	357.0	357.0	357.0	357.0	357.0
2.5°	431.6	420.8	406.2	358.5	314.7	274.6	254.6	252.3
5°	486.2	476.2	451.6	357.0	273.1	213.1	176.9	166.9
7.5°	507.0	498.5	477.0	353.9	233.9	153.1	112.3	96.9
10°	512.4	507.0	488.5	348.5	193.1	100.8	53.1	40.8
12.5°	514.7	510.8	493.1	340.0	152.3	52.3	36.2	36.2
15°	518.5	514.7	497.8	329.3	112.3	35.4	34.6	34.6
17.5°	535.4	523.1	503.9	313.1	73.9	33.9	33.9	33.9
20°	563.1	536.2	507.0	291.6	46.2	33.1	33.1	33.9
22.5°	586.2	550.1	506.2	259.3	33.9	31.5	32.3	33.1
25°	596.2	556.2	499.3	220.8	29.2	30.8	32.3	32.3
27.5°	594.7	558.5	493.1	176.9	27.7	30.0	31.5	33.1
30°	586.2	552.4	479.3	130.8	26.2	29.2	31.5	33.1
32.5°	571.6	528.5	451.6	84.6	25.4	29.2	31.5	33.1
35°	523.9	490.1	411.6	40.8	24.6	28.5	32.3	33.1
37.5°	496.2	449.3	313.9	20.0	23.8	28.5	32.3	33.1
40°	451.6	335.4	141.6	18.5	23.8	28.5	32.3	33.9
42.5°	283.9	137.7	23.1	17.7	23.1	28.5	32.3	33.9
45°	103.9	18.5	12.3	17.7	23.1	27.7	32.3	33.9
47.5°	10.8	10.8	11.5	16.9	22.3	27.7	32.3	33.9
50°	10.0	10.8	11.5	16.2	21.5	27.7	31.5	33.9
52.5°	10.0	10.8	11.5	16.2	20.8	26.9	31.5	33.9
55°	10.0	10.8	10.8	15.4	20.0	26.2	30.8	32.3
57.5°	9.2	10.0	10.8	14.6	19.2	24.6	30.0	31.5
60°	9.2	10.0	10.8	13.1	18.5	23.1	28.5	29.2
62.5°	8.5	9.2	10.0	12.3	16.9	21.5	26.2	27.7
65°	8.5	8.5	9.2	10.8	15.4	19.2	23.8	25.4
67.5°	6.9	7.7	7.7	9.2	13.1	16.9	21.5	23.1
70°	6.2	6.2	6.9	8.5	11.5	14.6	18.5	20.0
72.5°	5.4	5.4	5.4	6.9	10.0	13.1	16.2	17.7
75°	4.6	4.6	4.6	5.4	8.5	10.8	13.8	14.6
77.5°	3.8	3.8	3.8	4.6	6.9	9.2	10.8	12.3
80°	3.1	3.1	3.1	3.8	5.4	6.9	8.5	9.2
82.5°	2.3	2.3	2.3	3.1	3.8	4.6	6.2	6.2
85°	1.5	1.5	1.5	2.3	2.3	3.1	3.8	3.8
87.5°	0.8	0.8	0.8	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)