

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: P1318984

Luminaire Tested: LDSQA3D05R509835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

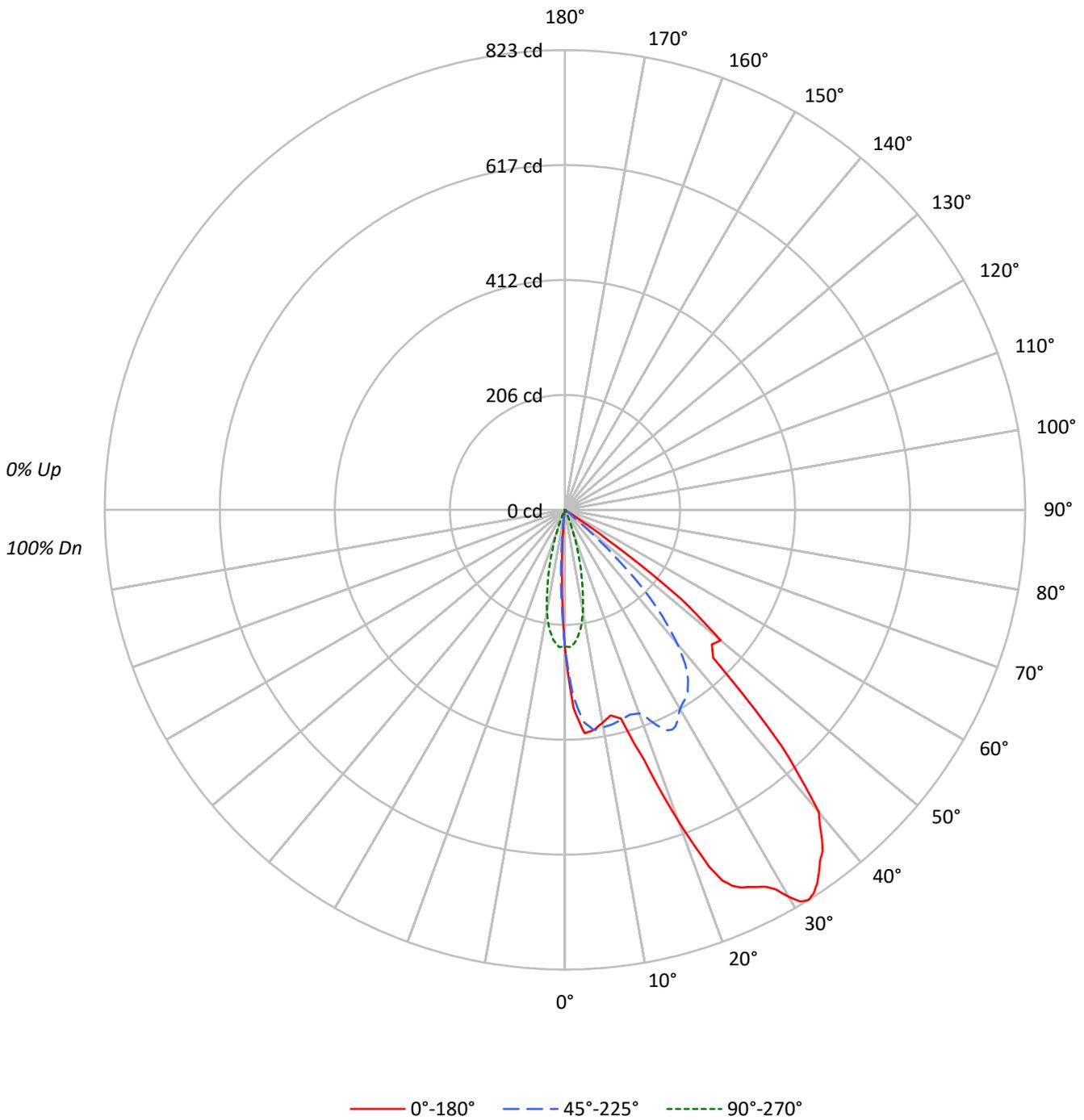
Test Method: LM-79-2019  
Report Number: P1318984  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509835DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 394.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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	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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	75	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	69	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	65	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	42126	42126	42126	42126	42126
5°	69412	65867	40489	12032	6016
10°	67643	69130	32440	612	804
15°	68966	69394	19434	624	214
20°	108719	71038	8009	0	0
25°	141741	82757	1900	0	0
30°	159092	81853	80	0	0
35°	166493	80608	0	0	0
40°	158813	70032	0	0	0
45°	91213	46228	0	0	0
50°	97339	5278	0	0	0
55°	27744	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 100712 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.5	5.2
10°-20°	51.8	13.1
20°-30°	99.4	25.2
30°-40°	115.7	29.4
40°-50°	82.8	21.0
50°-60°	23.1	5.9
60°-70°	0.2	0.0
70°-80°	0.2	0.1
80°-90°	0.3	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°	171.7	43.6
0°-40°	287.5	73.0
0°-60°	393.3	99.8
0°-90°	394.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	394.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	245	245	245	245	245	
5°	402	381	234	70	35	37
15°	387	389	109	4	1	125
25°	746	436	10	0	0	339
35°	792	383	0	0	0	490
45°	374	190	0	0	0	352
55°	92	0	0	0	0	116
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	244.6	244.6	244.6	244.6	244.6	244.6	244.6	244.6	244.6	244.6	244.6
2.5°	355.5	357.5	357.9	353.2	354.0	347.4	347.8	343.2	332.0	292.9	245.8
5°	401.5	400.4	401.5	400.0	401.5	397.7	395.3	393.4	381.0	325.8	234.2
7.5°	397.3	395.7	398.1	398.8	401.5	400.4	400.8	401.9	397.7	343.6	214.5
10°	386.8	386.5	387.6	387.6	390.7	391.1	392.6	395.0	395.3	349.7	185.5
12.5°	376.8	375.6	375.6	375.3	376.8	376.4	380.3	385.7	393.0	345.9	145.7
15°	386.8	385.7	384.1	379.9	376.8	373.3	373.7	377.2	389.2	335.8	109.0
17.5°	468.0	461.8	454.1	440.6	426.3	401.5	386.8	377.6	384.5	320.4	72.7
20°	593.2	590.5	578.1	556.1	532.9	496.6	451.4	415.1	387.6	301.1	43.7
21°	640.7	639.2	626.1	605.6	579.3	535.2	488.9	445.2	393.8	292.9	34.4
22°	689.4	683.6	673.2	650.4	623.0	578.9	527.1	478.8	406.2	282.5	26.3
23°	720.7	717.3	706.1	687.9	661.6	618.7	565.8	513.2	418.1	270.9	19.7
24°	737.0	735.8	726.9	714.2	691.8	648.1	597.8	543.7	428.2	257.4	14.3
25°	745.9	742.0	736.6	727.3	710.3	672.4	627.6	570.4	435.5	243.9	10.0
26°	751.3	749.0	740.5	732.3	716.1	685.2	646.9	586.6	437.5	227.2	7.0
27°	757.5	752.0	743.9	734.3	716.1	689.1	654.3	593.6	435.2	210.2	4.6
28°	764.0	760.2	749.0	736.6	714.9	689.1	651.6	584.3	428.2	194.0	2.7
29°	776.8	771.8	757.8	739.7	715.3	688.3	641.1	565.0	418.9	175.8	1.5
30°	800.0	789.5	772.5	747.0	718.0	686.7	623.7	536.0	411.6	155.4	0.4
31°	818.1	812.3	792.6	760.5	725.8	682.5	603.3	507.4	406.6	137.6	0.0
32°	823.2	818.9	804.6	774.5	738.9	679.0	580.1	479.6	402.7	117.9	0.0
33°	817.4	814.7	799.6	772.1	742.4	674.4	553.4	452.2	398.4	100.1	0.0
34°	806.5	803.1	789.9	762.1	733.5	654.3	527.9	431.3	392.3	83.5	0.0
35°	791.9	789.1	775.6	748.2	717.3	623.0	502.4	417.4	383.4	66.9	0.0
36°	776.0	775.2	757.8	730.8	696.4	592.8	471.5	406.9	374.5	52.9	0.0
37°	765.6	761.7	742.8	716.1	671.7	557.7	446.7	403.5	362.1	41.0	0.0
38°	746.6	747.4	725.8	701.4	646.5	527.1	426.6	400.8	348.2	29.8	0.0
39°	724.2	724.6	702.2	681.3	616.8	495.1	410.0	398.1	330.8	18.9	0.0
40°	706.4	706.1	680.6	658.1	584.7	464.9	401.1	394.2	311.5	10.8	0.0
42.5°	574.3	576.6	579.7	589.0	509.4	412.0	392.6	372.5	256.6	0.0	0.0
45°	374.5	383.4	385.7	413.5	413.1	390.3	372.5	333.9	189.8	0.0	0.0
47.5°	356.3	359.0	364.0	374.9	380.7	369.5	333.1	279.0	103.6	0.0	0.0
50°	363.3	362.9	364.0	364.0	353.6	324.6	273.2	206.0	19.7	0.0	0.0
52.5°	260.9	270.5	281.0	285.6	272.1	241.5	199.4	121.0	0.0	0.0	0.0
55°	92.4	89.3	87.0	95.1	93.1	104.7	86.6	28.2	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	1.5	3.5	4.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	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):**

	112.5°	135°	157.5°	180°
0°	244.6	244.6	244.6	244.6
2.5°	195.9	150.3	121.7	123.7
5°	137.6	69.6	42.9	34.8
7.5°	82.3	21.3	4.3	3.5
10°	38.6	3.5	3.9	4.6
12.5°	11.6	3.1	4.3	3.9
15°	3.1	3.5	1.9	1.2
17.5°	1.2	1.5	0.0	0.0
20°	0.8	0.0	0.0	0.0
21°	0.8	0.0	0.0	0.0
22°	0.4	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.4	0.0	0.0	0.0
67.5°	0.4	0.0	0.0	0.0
70°	0.4	0.0	0.0	0.0
72.5°	0.4	0.0	0.0	0.0
75°	0.4	0.0	0.0	0.0
77.5°	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)