

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: P1318975

Luminaire Tested: LDSQA3D05R459835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R459835DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

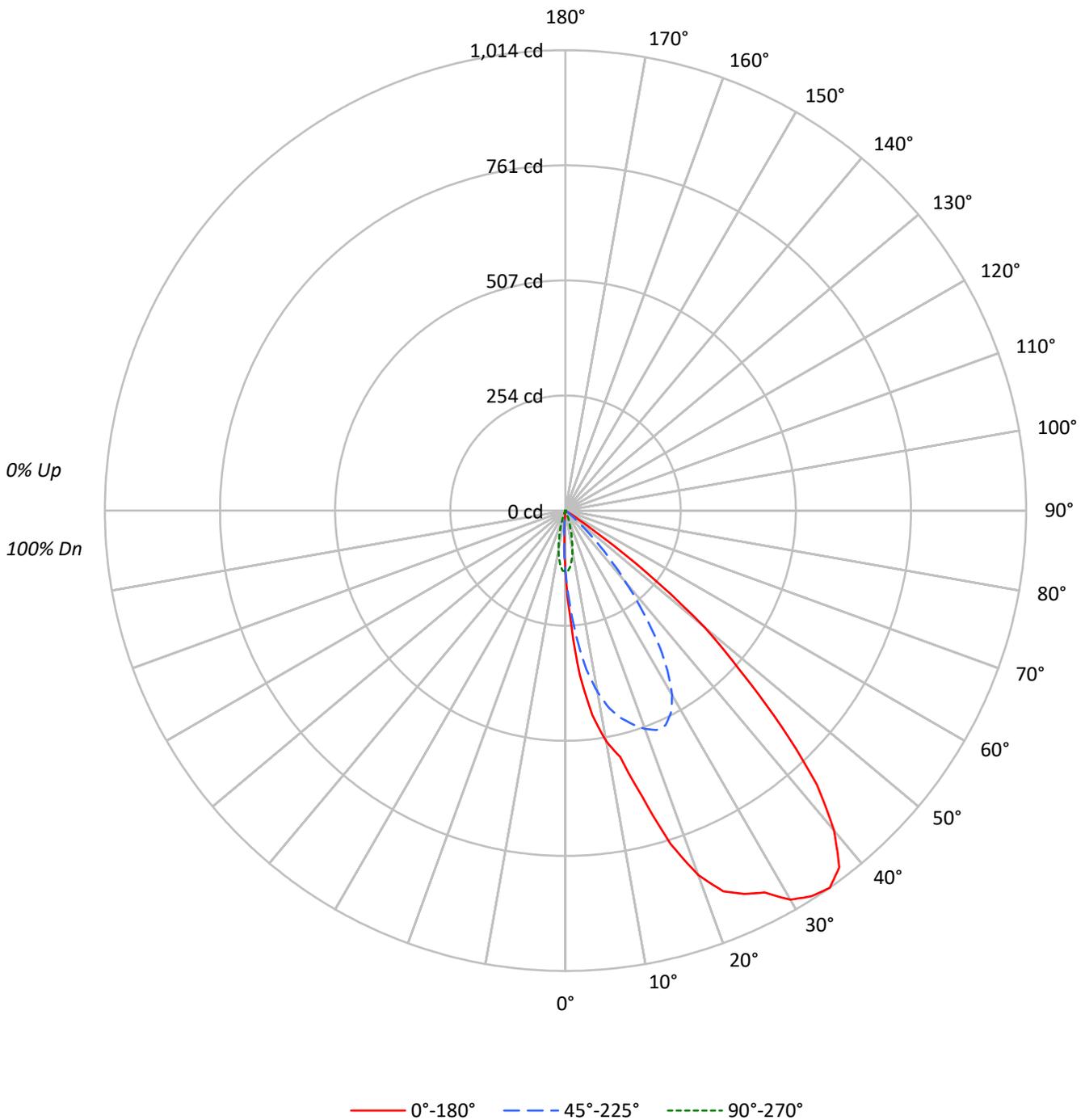
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 430.0 lumens  
Efficiency: N/A  
Efficacy: 59.7 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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 (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				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	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	22992	22992	22992	22992	22992
5°	62790	48303	21282	4270	1608
10°	90185	70879	15389	402	332
15°	116090	84299	8184	143	0
20°	156481	93800	3116	0	0
25°	176991	99080	798	0	0
30°	196718	93407	80	0	0
35°	213252	74490	0	0	0
40°	206700	46763	0	0	0
45°	163867	22286	0	0	0
50°	107253	2786	0	0	0
55°	18436	0	0	0	0
60°	0	0	138	0	0
65°	0	163	163	0	0
70°	0	201	403	0	0
75°	0	266	532	0	0
80°	0	397	793	397	0
85°	0	790	1581	790	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 163867 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	3.7
10°-20°	61.3	14.2
20°-30°	114.7	26.7
30°-40°	133.9	31.1
40°-50°	87.3	20.3
50°-60°	16.2	3.8
60°-70°	0.2	0.0
70°-80°	0.3	0.1
80°-90°	0.4	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°	191.8	44.6
0°-40°	325.7	75.7
0°-60°	429.2	99.8
0°-90°	430.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	430.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	134	134	134	134	134	
5°	363	279	123	25	9	39
15°	651	473	46	1	0	194
25°	931	521	4	0	0	431
35°	1014	354	0	0	0	622
45°	673	92	0	0	0	512
55°	61	0	0	0	0	107
65°	0	0	0	0	0	0
75°	0	0	1	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°	40°	45°	50°
0°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
2.5°	235.4	237.4	233.5	232.0	227.0	228.1	219.6	216.1	210.7	201.9	197.6
5°	363.2	359.7	356.6	350.1	346.2	335.8	324.2	311.1	295.3	279.4	261.3
7.5°	454.3	451.6	450.4	445.0	437.3	426.5	411.4	394.9	374.4	353.2	325.8
10°	515.7	513.0	508.3	502.9	496.7	487.9	473.2	455.1	432.7	405.3	373.2
12.5°	555.8	555.4	547.7	541.5	533.8	526.1	511.0	496.4	474.4	446.2	409.9
15°	651.1	645.0	634.9	617.6	595.9	575.9	551.6	528.4	504.5	472.8	432.3
17.5°	770.0	763.1	746.1	724.1	689.3	651.1	609.5	572.8	536.9	494.0	446.2
20°	853.8	851.1	836.8	811.3	774.3	723.7	668.9	617.2	566.6	511.8	452.7
22.5°	907.4	905.9	900.1	882.7	844.9	788.2	717.5	648.0	587.1	523.0	450.8
25°	931.4	933.3	934.1	925.6	895.1	837.2	753.4	671.6	598.6	521.4	436.1
27.5°	948.3	948.3	951.4	947.6	916.7	855.7	767.3	679.7	594.8	502.5	405.3
30°	989.2	988.5	990.4	980.0	937.1	861.5	761.1	666.6	572.8	469.7	360.9
32.5°	1007.0	1007.8	1007.4	990.8	941.0	857.6	746.1	641.5	532.3	418.4	302.2
35°	1014.3	1010.9	996.6	958.8	895.8	806.3	703.6	599.0	475.5	354.3	238.5
37.5°	990.0	980.0	948.3	896.6	819.8	733.7	633.4	523.0	400.3	277.9	179.5
40°	919.4	906.3	866.5	804.0	733.7	656.2	550.4	433.8	313.0	208.0	125.8
42.5°	819.4	804.4	761.5	707.1	643.0	561.6	456.2	339.7	229.3	143.6	79.9
45°	672.8	664.3	639.6	593.6	530.7	446.2	349.7	247.8	158.6	91.5	40.9
47.5°	520.3	509.5	491.7	460.1	407.6	327.3	244.7	168.3	101.9	45.2	8.5
50°	400.3	387.5	365.9	330.8	276.0	218.5	158.6	105.0	51.7	10.4	0.4
52.5°	230.4	233.1	222.7	200.3	169.8	130.8	91.9	52.9	11.6	0.4	0.0
55°	61.4	66.4	64.8	69.9	61.4	51.7	38.2	10.0	0.8	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	2.3	3.5	1.2	0.4	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.4	0.4	0.4	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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°	133.5	133.5	133.5	133.5	133.5	133.5	133.5	133.5
2.5°	188.0	179.9	169.8	132.8	100.0	71.8	56.0	51.7
5°	243.9	224.3	198.8	123.1	61.8	24.7	11.2	9.3
7.5°	296.8	267.9	221.9	107.7	31.3	6.2	3.1	2.7
10°	337.7	298.7	238.9	88.0	11.6	2.3	1.9	1.9
12.5°	365.9	318.4	245.1	66.8	4.2	1.2	1.2	0.8
15°	382.1	326.1	239.3	45.9	1.5	0.8	0.0	0.0
17.5°	387.1	323.1	223.9	28.9	0.4	0.0	0.0	0.0
20°	382.9	308.0	199.5	17.0	0.0	0.0	0.0	0.0
22.5°	369.0	284.5	170.2	9.3	0.0	0.0	0.0	0.0
25°	343.1	251.3	135.9	4.2	0.0	0.0	0.0	0.0
27.5°	301.1	208.4	102.3	1.5	0.0	0.0	0.0	0.0
30°	253.2	162.5	72.6	0.4	0.0	0.0	0.0	0.0
32.5°	197.6	119.7	46.7	0.0	0.0	0.0	0.0	0.0
35°	148.6	83.8	27.8	0.0	0.0	0.0	0.0	0.0
37.5°	103.4	52.9	14.7	0.0	0.0	0.0	0.0	0.0
40°	64.5	28.6	5.0	0.0	0.0	0.0	0.0	0.0
42.5°	35.9	10.0	0.4	0.0	0.0	0.0	0.0	0.0
45°	8.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0
62.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
65°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.8	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.8	0.8	0.4	0.0	0.0	0.0
77.5°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
80°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
82.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
85°	0.4	0.8	0.8	0.8	0.4	0.4	0.0	0.0
87.5°	0.4	0.8	0.8	0.8	0.8	0.4	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)