

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: P1319862

Luminaire Tested: LDSQA3D05R509840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R509840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

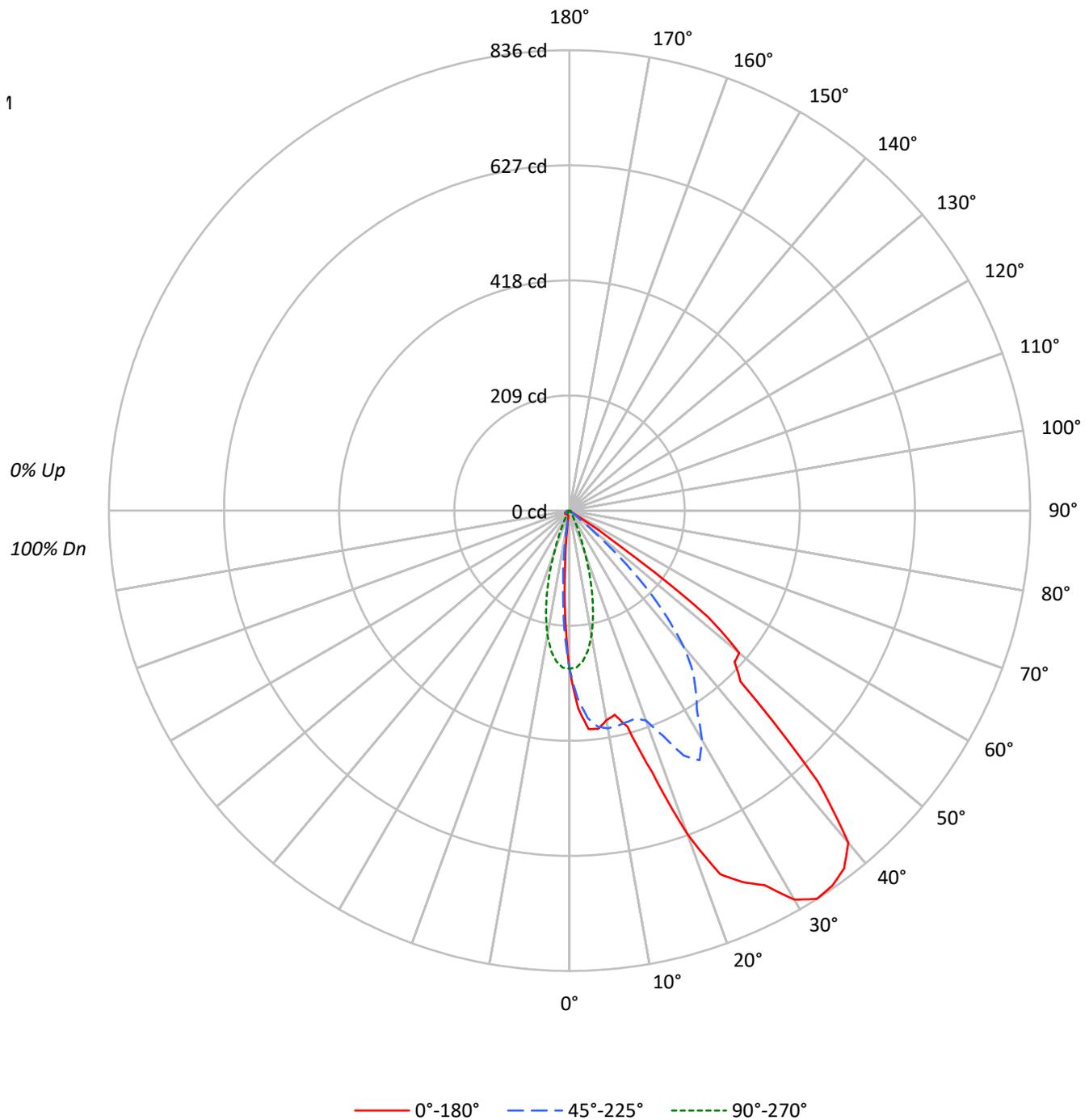
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 446.0 lumens
Efficiency: N/A
Efficacy: 61.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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				
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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	49376	49376	49376	49376	49376
5°	68858	65332	47473	22820	14799
10°	67591	70197	40117	4809	2064
15°	72478	70945	28367	1676	1605
20°	114456	74300	14974	1448	1503
25°	141437	93303	5967	1349	1501
30°	162155	95694	2426	1332	1571
35°	174819	83993	1072	1409	1724
40°	176979	72325	787	1596	1933
45°	106947	46885	755	1729	2192
50°	107762	8092	831	2009	2519
55°	31858	480	931	2252	2822
60°	551	551	930	2446	3100
65°	489	489	978	2567	3342
70°	604	604	1007	2769	3777
75°	532	532	1065	2861	3926
80°	397	793	1190	2678	4265
85°	790	1581	1581	3162	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 122169 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.2	5.2
10°-20°	57.6	12.9
20°-30°	107.9	24.2
30°-40°	129.0	28.9
40°-50°	92.4	20.7
50°-60°	28.5	6.4
60°-70°	3.7	0.8
70°-80°	2.7	0.6
80°-90°	1.1	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°	188.6	42.3
0°-40°	317.6	71.2
0°-60°	438.5	98.3
0°-90°	446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	446.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	287	287	287	287	287	
5°	398	378	275	132	86	37
15°	406	398	159	9	9	130
25°	744	491	31	7	8	343
35°	832	400	5	7	8	516
45°	439	192	3	7	9	403
55°	106	2	3	8	9	137
65°	1	1	2	6	8	1
75°	1	1	2	4	6	1
85°	0	1	1	2	2	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°	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7
2.5°	358.6	359.4	360.6	357.4	355.5	353.9	351.2	350.4	343.7	340.9	338.2
5°	398.3	397.5	398.3	397.1	396.3	394.0	391.6	387.7	383.4	377.9	371.6
7.5°	399.5	398.7	400.3	400.3	401.8	401.8	401.8	402.2	399.9	395.9	390.4
10°	386.5	386.5	388.1	387.3	390.0	391.2	394.0	398.7	401.0	401.4	399.9
12.5°	379.8	379.8	380.2	378.7	379.4	380.6	383.8	389.3	394.8	400.3	403.4
15°	406.5	407.3	401.8	394.0	388.1	381.8	379.8	383.4	389.3	397.9	405.0
17.5°	497.3	498.5	492.6	473.7	455.6	429.7	406.5	395.2	388.9	395.9	405.4
20°	624.5	620.2	610.0	590.0	563.7	523.6	487.5	450.9	416.0	405.4	408.5
22.5°	714.5	712.9	704.7	682.3	659.5	622.2	576.2	525.2	474.5	442.3	425.4
25°	744.3	743.2	735.7	722.3	709.8	681.5	640.3	588.8	535.8	491.0	448.6
27.5°	766.7	765.2	753.4	738.5	725.5	696.8	659.1	620.2	571.5	511.0	445.8
30°	815.4	811.1	794.6	767.9	743.2	703.5	661.9	613.5	547.6	481.2	417.5
32.5°	835.9	833.5	819.4	797.8	770.7	718.8	655.6	574.7	487.9	430.5	384.2
35°	831.5	828.0	813.5	788.7	755.7	705.9	621.4	510.2	439.5	399.5	347.2
37.5°	818.6	813.5	796.2	767.1	727.1	661.9	551.5	458.0	412.4	367.3	297.0
40°	787.2	778.9	758.9	728.6	688.6	602.9	487.9	426.6	384.2	321.7	240.8
42.5°	667.0	662.6	672.5	667.4	632.0	531.1	442.7	397.9	339.4	260.0	174.4
45°	439.1	446.6	464.3	494.5	501.6	456.8	405.8	350.8	279.3	192.5	100.6
47.5°	406.5	405.0	409.3	415.2	416.4	397.5	351.2	289.9	207.4	110.0	27.9
50°	402.2	399.9	396.3	389.3	374.3	337.8	285.2	211.3	119.8	30.2	2.0
52.5°	317.8	315.4	315.4	305.2	286.0	250.6	196.8	116.3	33.4	2.0	1.6
55°	106.1	113.1	111.9	111.6	120.2	110.8	84.8	29.9	2.7	1.6	1.6
57.5°	2.0	2.0	2.0	3.5	5.5	7.9	4.7	2.4	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2
77.5°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	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°	286.7	286.7	286.7	286.7	286.7	286.7	286.7	286.7
2.5°	331.9	326.4	315.8	285.6	252.2	214.1	188.1	185.0
5°	361.8	353.5	336.2	274.6	198.4	132.0	98.2	85.6
7.5°	381.4	370.4	349.2	256.5	144.5	69.5	37.3	29.9
10°	393.2	383.0	355.9	229.4	91.9	27.5	12.6	11.8
12.5°	399.5	389.7	358.2	196.8	51.8	12.6	9.8	9.8
15°	403.8	393.2	354.7	159.1	25.9	9.4	9.0	9.0
17.5°	405.8	392.8	344.5	119.8	13.7	8.6	8.6	8.6
20°	406.9	388.5	325.6	81.7	9.4	7.9	8.2	8.2
22.5°	408.1	377.9	300.9	51.8	7.5	7.5	7.9	7.9
25°	405.8	359.4	265.9	31.4	6.7	7.1	7.5	7.9
27.5°	388.9	331.5	223.5	19.2	5.9	6.7	7.5	7.9
30°	359.8	290.7	174.4	12.2	5.5	6.7	7.5	7.9
32.5°	322.1	243.9	124.5	7.5	5.5	6.7	7.5	7.9
35°	271.4	186.6	80.9	5.1	5.5	6.7	7.9	8.2
37.5°	214.5	130.4	43.6	3.9	5.5	6.7	7.9	8.2
40°	154.4	78.2	15.7	3.5	5.1	7.1	8.2	8.6
42.5°	90.3	29.1	2.7	3.1	5.1	7.1	8.2	8.6
45°	25.9	3.1	1.6	3.1	5.1	7.1	8.6	9.0
47.5°	2.0	1.2	1.6	3.1	5.1	7.1	8.6	9.4
50°	1.2	1.2	1.2	3.1	5.1	7.5	9.0	9.4
52.5°	1.6	1.6	1.6	3.1	5.1	7.5	9.0	9.4
55°	1.6	1.6	1.6	3.1	5.1	7.5	9.0	9.4
57.5°	1.6	1.6	1.6	3.1	5.1	7.1	9.0	9.4
60°	1.6	1.6	1.6	2.7	4.7	7.1	8.6	9.0
62.5°	1.6	1.6	1.6	2.7	4.7	6.7	8.6	8.6
65°	1.6	1.6	1.6	2.4	4.3	6.3	7.9	8.2
67.5°	1.6	1.6	1.6	2.4	3.9	5.9	7.5	7.9
70°	1.2	1.6	1.6	2.0	3.5	5.5	7.1	7.5
72.5°	1.2	1.2	1.6	2.0	3.1	4.7	6.3	6.7
75°	1.2	1.2	1.2	1.6	2.7	4.3	5.5	5.9
77.5°	1.2	1.2	1.2	1.6	2.4	3.5	5.1	5.1
80°	0.8	1.2	1.2	1.2	2.0	2.7	3.9	4.3
82.5°	0.8	0.8	0.8	1.2	1.6	2.4	3.1	3.1
85°	0.8	0.8	0.8	0.8	1.2	1.6	2.0	2.0
87.5°	0.4	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

(END OF REPORT)