

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: P1325201

Luminaire Tested: LDSQA3D05R45W2N902765DE010 3LSQCA30R 1MW\_4000K

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1325201  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R45W2N902765DE010 3LSQCA30R 1MW\_4000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

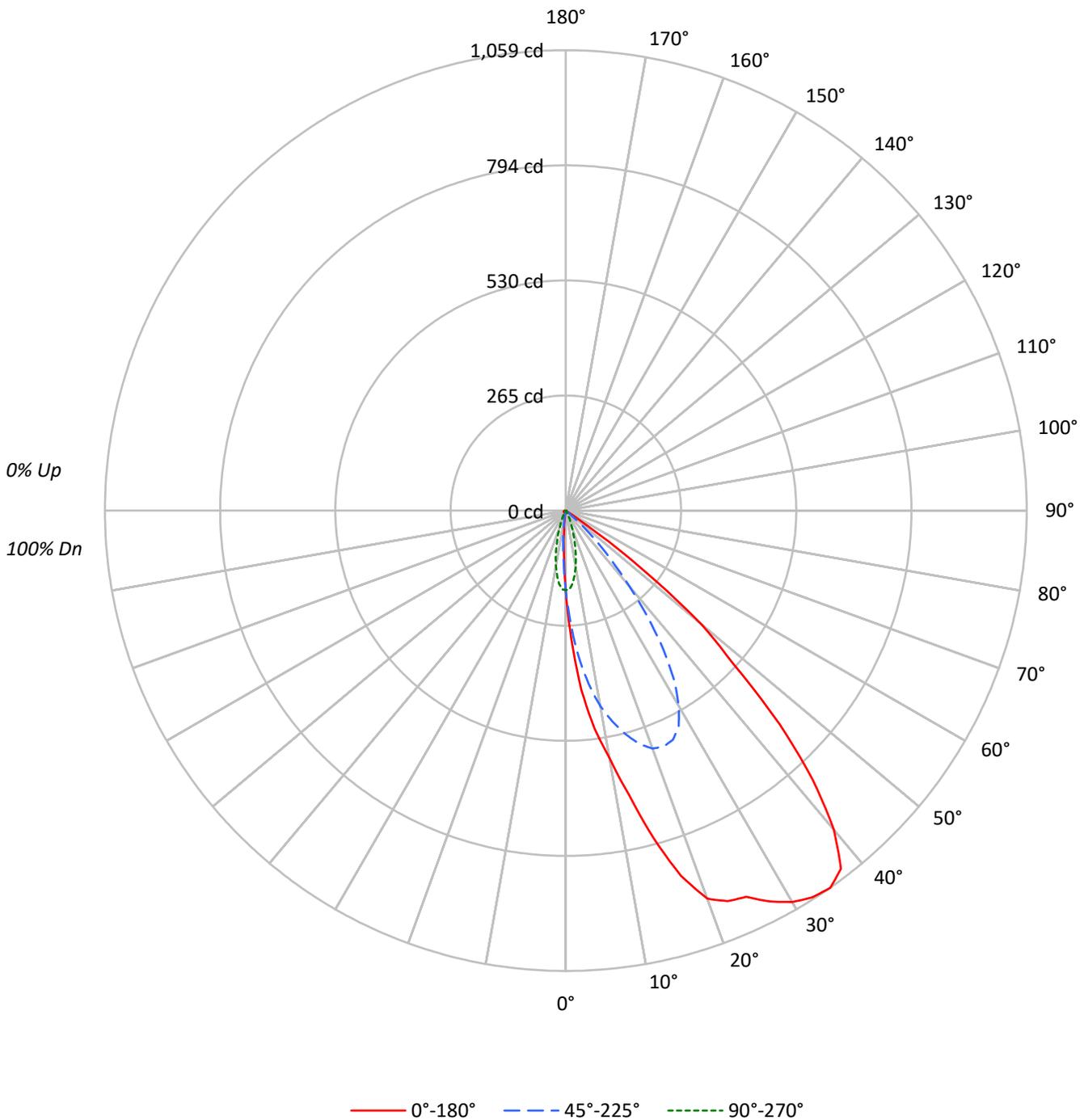
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 480.0 lumens  
Efficiency: N/A  
Efficacy: 81.3 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	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	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	37

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

	0°	45°	90°	135°	180°
0°	31448	31448	31448	31448	31448
5°	71694	58157	29424	11790	8056
10°	101028	79885	22752	2606	1189
15°	139215	95051	14531	856	713
20°	174075	106758	7569	586	586
25°	186283	110539	3515	456	532
30°	206761	103211	1591	477	557
35°	222734	82290	505	505	673
40°	215513	50989	270	629	809
45°	169250	24064	292	779	974
50°	108726	2786	429	965	1286
55°	16514	240	480	1201	1561
60°	276	276	551	1378	1653
65°	326	326	652	1467	1956
70°	403	403	806	1611	2216
75°	266	532	1065	1863	2396
80°	397	793	1190	1984	2777
85°	0	790	1581	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 169250 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.0	4.2
10°-20°	72.3	15.1
20°-30°	127.0	26.5
30°-40°	144.2	30.0
40°-50°	93.4	19.4
50°-60°	18.3	3.8
60°-70°	2.2	0.5
70°-80°	1.8	0.4
80°-90°	0.8	0.2
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°	219.2	45.7
0°-40°	363.4	75.7
0°-60°	475.1	99.0
0°-90°	480.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	480.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	183	183	183	183	183	
5°	415	336	170	68	47	44
15°	781	533	82	5	4	225
25°	980	582	18	2	3	460
35°	1059	391	2	2	3	651
45°	695	99	1	3	4	524
55°	55	1	2	4	5	105
65°	1	1	2	4	5	1
75°	0	1	2	3	4	0
85°	0	0	1	1	1	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°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	296.7	295.9	297.1	289.0	288.6	282.6	281.0	274.2	264.9	260.5	250.1
5°	414.7	410.7	410.7	401.0	397.8	391.0	379.3	364.9	352.9	336.4	318.7
7.5°	505.8	505.0	505.0	496.6	488.5	478.9	463.2	446.8	427.5	402.2	376.5
10°	577.7	578.9	575.2	567.6	556.0	545.5	527.1	507.0	483.3	456.8	422.7
12.5°	668.4	659.5	656.7	639.5	624.6	604.6	582.5	559.6	530.3	497.0	458.4
15°	780.8	769.5	758.3	735.4	710.5	679.6	645.1	611.4	573.6	533.1	484.9
17.5°	881.1	881.1	866.3	830.2	798.0	752.3	705.7	660.7	616.2	562.8	502.6
20°	949.8	946.2	934.9	908.4	871.9	820.1	759.5	696.5	642.7	582.5	512.6
22.5°	972.3	971.5	971.9	956.2	926.9	873.1	798.8	724.6	657.1	587.3	507.8
25°	980.3	981.9	985.9	979.9	957.8	904.0	822.9	737.8	661.6	581.7	489.3
27.5°	1013.6	1010.4	1014.8	1010.8	985.9	921.7	827.7	734.6	651.9	561.2	456.4
30°	1039.7	1038.9	1046.5	1042.9	1010.4	932.9	823.3	722.6	628.2	519.0	404.6
32.5°	1054.6	1055.0	1057.0	1042.1	993.9	908.4	801.7	698.1	583.7	464.1	337.2
35°	1059.4	1057.0	1045.7	1009.2	943.4	851.8	748.3	639.9	523.1	391.4	266.5
37.5°	1038.5	1026.0	997.1	942.6	866.3	780.8	680.0	566.4	440.0	309.1	198.7
40°	958.6	942.2	905.6	849.8	778.8	696.1	592.9	474.1	341.2	226.8	139.7
42.5°	839.0	830.6	792.4	743.8	683.6	600.1	493.8	373.3	252.5	156.6	89.1
45°	694.9	684.0	659.9	617.0	569.6	482.1	383.0	267.4	172.2	98.8	44.2
47.5°	521.1	521.9	505.4	472.9	426.3	353.3	262.1	179.4	108.0	51.0	10.0
50°	405.8	400.2	376.9	343.6	289.4	235.2	169.4	113.2	57.0	10.4	0.8
52.5°	224.8	228.4	216.0	205.1	177.0	140.5	100.0	57.4	12.0	1.2	0.8
55°	55.0	58.2	55.8	57.0	59.0	52.6	40.5	11.2	1.2	0.8	0.8
57.5°	1.2	1.2	1.2	1.2	2.0	2.8	2.8	0.8	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	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	0.4
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°	182.6	182.6	182.6	182.6	182.6	182.6	182.6	182.6
2.5°	244.9	237.2	223.2	181.4	145.7	117.6	100.8	99.2
5°	303.1	282.6	252.9	170.2	107.6	68.2	49.4	46.6
7.5°	349.2	320.3	274.6	151.7	73.5	34.9	19.3	16.1
10°	387.4	346.4	285.8	130.1	46.2	14.9	8.0	6.8
12.5°	413.5	364.1	287.8	106.0	26.5	7.2	5.2	4.8
15°	430.3	369.7	278.2	81.5	14.9	4.8	4.4	4.0
17.5°	437.2	364.9	259.7	59.0	8.0	3.6	3.6	3.6
20°	433.9	349.2	232.4	41.3	5.2	3.2	3.2	3.2
22.5°	418.7	322.3	198.3	27.7	3.6	2.8	2.8	2.8
25°	388.6	285.8	162.2	18.5	2.4	2.4	2.8	2.8
27.5°	343.6	240.9	124.0	12.4	2.0	2.4	2.8	2.8
30°	287.0	190.7	89.1	8.0	2.0	2.4	2.4	2.8
32.5°	228.0	138.9	58.6	4.8	1.6	2.4	2.8	3.2
35°	165.4	94.7	37.3	2.4	2.0	2.4	2.8	3.2
37.5°	116.0	61.8	21.7	1.6	2.0	2.4	3.2	3.2
40°	75.5	34.5	8.0	1.2	2.0	2.8	3.2	3.6
42.5°	39.3	12.0	1.6	1.2	2.0	2.8	3.6	4.0
45°	10.0	1.6	0.4	1.2	2.4	3.2	4.0	4.0
47.5°	1.2	0.4	0.4	1.6	2.4	3.6	4.0	4.4
50°	0.4	0.8	0.8	1.6	2.4	3.6	4.4	4.8
52.5°	0.8	0.8	0.8	1.6	2.8	3.6	4.8	5.2
55°	0.8	0.8	0.8	1.6	2.8	4.0	4.8	5.2
57.5°	0.8	0.8	0.8	1.6	2.8	4.0	4.8	4.8
60°	0.8	0.8	0.8	1.6	2.8	4.0	4.8	4.8
62.5°	0.8	0.8	1.2	1.6	2.8	3.6	4.8	4.8
65°	0.8	1.2	1.2	1.6	2.8	3.6	4.4	4.8
67.5°	0.8	0.8	1.2	1.6	2.8	3.6	4.4	4.8
70°	0.8	0.8	1.2	1.6	2.4	3.2	4.0	4.4
72.5°	0.8	0.8	1.2	1.6	2.4	3.2	3.6	4.0
75°	0.8	0.8	1.2	1.6	2.0	2.8	3.6	3.6
77.5°	0.8	0.8	1.2	1.2	2.0	2.4	3.2	3.2
80°	0.8	0.8	1.2	1.2	1.6	2.0	2.4	2.8
82.5°	0.8	0.8	0.8	1.2	1.2	1.6	2.0	2.0
85°	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2
87.5°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)