

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: P1325152

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325152
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: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

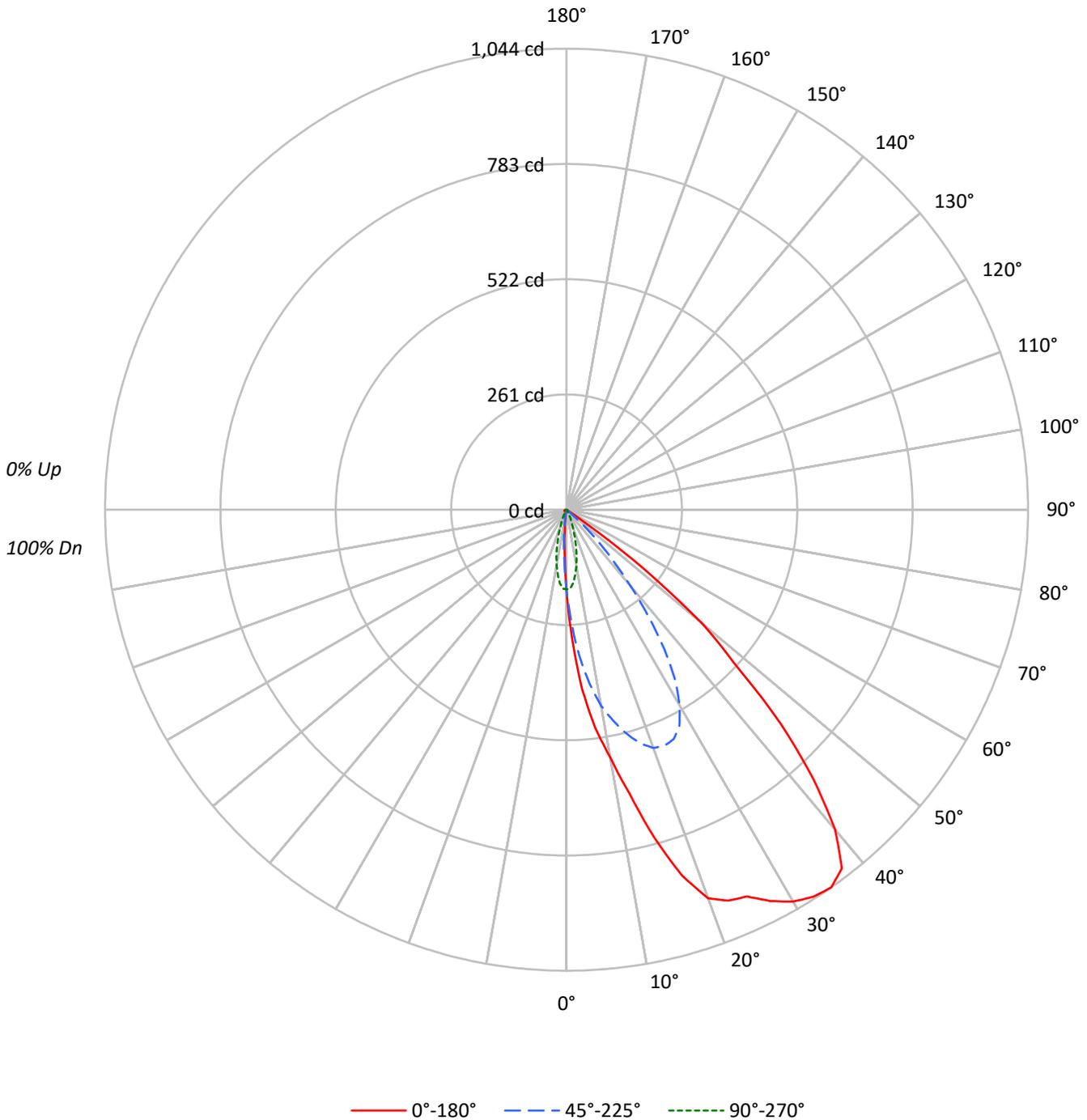
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 473.1 lumens
Efficiency: N/A
Efficacy: 80.2 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	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	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	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	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31000	31000	31000	31000	31000
5°	70639	57310	28992	11618	7935
10°	99541	78731	22420	2553	1172
15°	137182	93660	14317	838	713
20°	171528	105200	7459	586	586
25°	183566	108923	3458	456	532
30°	203738	101720	1571	477	557
35°	219475	81092	505	505	673
40°	212366	50247	270	629	809
45°	166765	23698	292	779	974
50°	107146	2760	429	965	1259
55°	16274	240	480	1201	1531
60°	276	276	551	1378	1619
65°	326	326	652	1467	1915
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: 166765 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.7	4.2
10°-20°	71.2	15.1
20°-30°	125.1	26.4
30°-40°	142.1	30.0
40°-50°	92.0	19.4
50°-60°	18.1	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°	216.0	45.7
0°-40°	358.1	75.7
0°-60°	468.2	99.0
0°-90°	473.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	473.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	180	180	180	180	180	
5°	409	332	168	67	46	43
15°	769	525	80	5	4	222
25°	966	573	18	2	3	453
35°	1044	386	2	2	3	642
45°	685	97	1	3	4	516
55°	54	1	2	4	5	103
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°	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0
2.5°	292.3	291.5	292.7	284.8	284.4	278.5	276.9	270.2	261.1	256.7	246.4
5°	408.6	404.7	404.7	395.2	392.0	385.3	373.8	359.6	347.7	331.5	314.1
7.5°	498.4	497.6	497.6	489.3	481.4	471.9	456.5	440.3	421.3	396.4	371.0
10°	569.2	570.4	566.9	559.3	547.9	537.6	519.4	499.6	476.3	450.2	416.5
12.5°	658.6	649.9	647.2	630.1	615.5	595.7	574.0	551.4	522.6	489.7	451.7
15°	769.4	758.3	747.2	724.7	700.2	669.7	635.7	602.5	565.3	525.3	477.9
17.5°	868.3	868.3	853.6	818.0	786.4	741.3	695.4	651.1	607.2	554.6	495.3
20°	935.9	932.4	921.3	895.2	859.2	808.2	748.4	686.3	633.3	574.0	505.1
22.5°	958.1	957.3	957.7	942.3	913.4	860.4	787.2	714.0	647.6	578.7	500.4
25°	966.0	967.6	971.5	965.6	943.8	890.8	810.9	727.1	651.9	573.2	482.2
27.5°	998.8	995.7	1000.0	996.1	971.5	908.2	815.7	723.9	642.4	553.0	449.8
30°	1024.5	1023.7	1031.3	1027.7	995.7	919.3	811.3	712.0	619.1	511.5	398.7
32.5°	1039.2	1039.6	1041.5	1026.9	979.4	895.2	790.0	687.9	575.2	457.3	332.3
35°	1043.9	1041.5	1030.5	994.5	929.6	839.4	737.3	630.5	515.4	385.7	262.7
37.5°	1023.3	1011.1	982.6	928.8	853.6	769.4	670.1	558.2	433.5	304.6	195.8
40°	944.6	928.4	892.4	837.4	767.4	685.9	584.3	467.2	336.2	223.5	137.7
42.5°	826.7	818.4	780.9	733.0	673.7	591.4	486.6	367.9	248.8	154.3	87.8
45°	684.7	674.1	650.3	608.0	561.3	475.1	377.4	263.5	169.7	97.3	43.5
47.5°	513.5	514.2	498.0	466.0	420.1	348.1	258.3	176.8	106.4	50.2	9.9
50°	399.9	394.4	371.4	338.6	285.2	231.8	166.9	111.6	56.2	10.3	0.8
52.5°	221.5	225.1	212.8	202.1	174.4	138.5	98.5	56.6	11.9	1.2	0.8
55°	54.2	57.4	55.0	56.2	58.1	51.8	40.0	11.1	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°	180.0	180.0	180.0	180.0	180.0	180.0	180.0	180.0
2.5°	241.3	233.8	219.9	178.8	143.6	115.9	99.3	97.7
5°	298.7	278.5	249.2	167.7	106.0	67.2	48.7	45.9
7.5°	344.1	315.7	270.6	149.5	72.4	34.4	19.0	15.8
10°	381.7	341.4	281.6	128.2	45.5	14.6	7.9	6.7
12.5°	407.4	358.8	283.6	104.4	26.1	7.1	5.1	4.7
15°	424.1	364.3	274.1	80.3	14.6	4.7	4.4	4.0
17.5°	430.8	359.6	255.9	58.1	7.9	3.6	3.6	3.6
20°	427.6	344.1	229.0	40.7	5.1	3.2	3.2	3.2
22.5°	412.6	317.6	195.4	27.3	3.6	2.8	2.8	2.8
25°	382.9	281.6	159.8	18.2	2.4	2.4	2.8	2.8
27.5°	338.6	237.3	122.2	12.3	2.0	2.4	2.8	2.8
30°	282.8	187.9	87.8	7.9	2.0	2.4	2.4	2.8
32.5°	224.7	136.9	57.8	4.7	1.6	2.4	2.8	3.2
35°	163.0	93.4	36.8	2.4	2.0	2.4	2.8	3.2
37.5°	114.3	60.9	21.4	1.6	2.0	2.4	3.2	3.2
40°	74.4	34.0	7.9	1.2	2.0	2.8	3.2	3.6
42.5°	38.8	11.9	1.6	1.2	2.0	2.8	3.6	4.0
45°	9.9	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	4.7
52.5°	0.8	0.8	0.8	1.6	2.8	3.6	4.7	5.1
55°	0.8	0.8	0.8	1.6	2.8	4.0	4.7	5.1
57.5°	0.8	0.8	0.8	1.6	2.8	4.0	4.7	4.7
60°	0.8	0.8	0.8	1.6	2.8	4.0	4.7	4.7
62.5°	0.8	0.8	1.2	1.6	2.8	3.6	4.7	4.7
65°	0.8	1.2	1.2	1.6	2.8	3.6	4.4	4.7
67.5°	0.8	0.8	1.2	1.6	2.8	3.6	4.4	4.7
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)