

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: P1325155

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325155
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

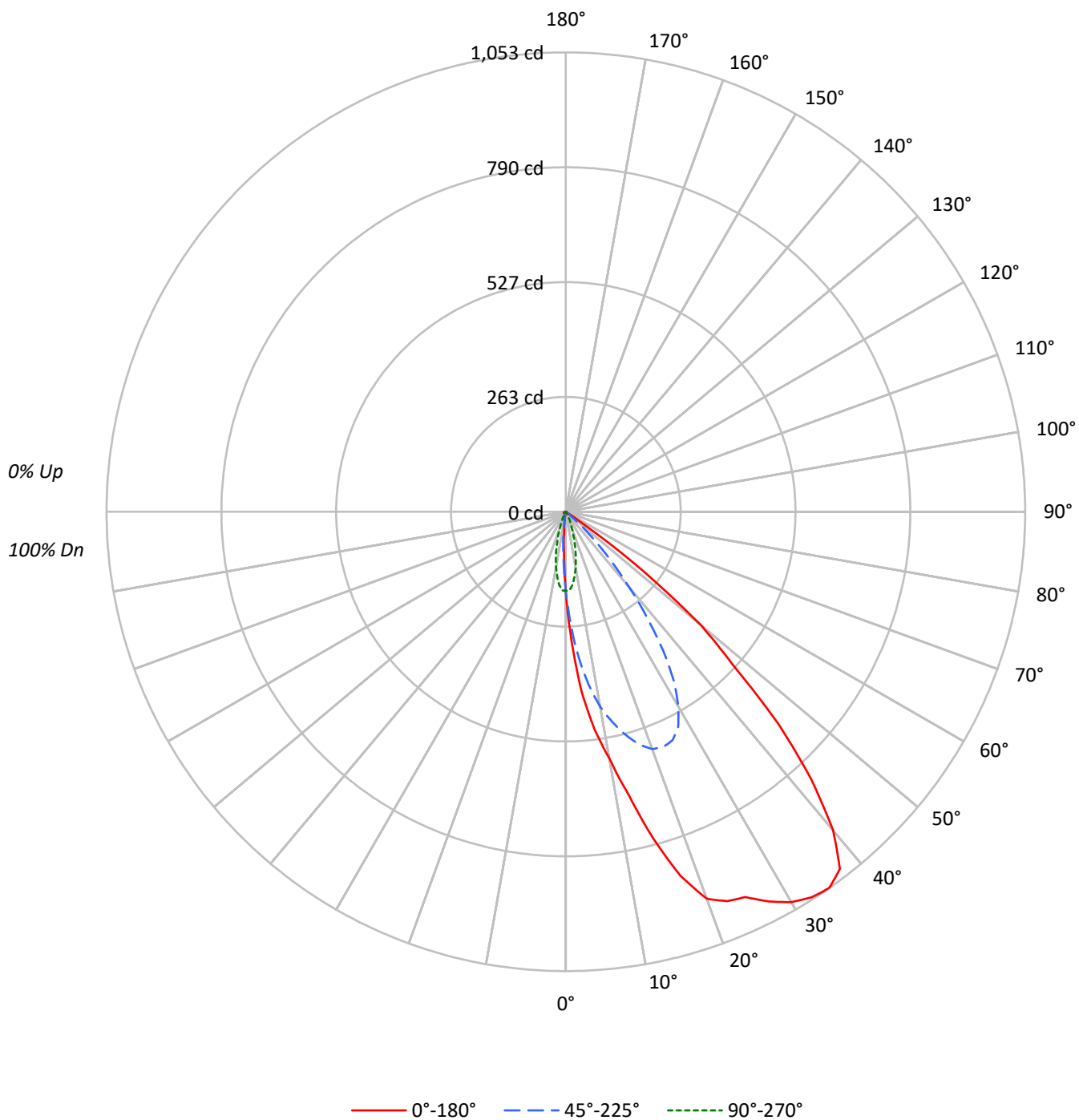
Lumens per Lamp: N/A
Luminaire Lumens: 477.0 lumens
Efficiency: N/A
Efficacy: 80.9 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88		91	88	86		89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78		84	80	77		82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63		71	66	62		70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57		66	60	56		64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51		61	55	51		60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47		56	51	47		55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43		52	47	43		51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39		49	43	39		48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31258	31258	31258	31258	31258
5°	71244	57794	29234	11721	8004
10°	100381	79395	22594	2588	1189
15°	138341	94462	14442	856	713
20°	172975	106080	7533	586	586
25°	185124	109835	3496	456	532
30°	205468	102575	1591	477	557
35°	221325	81764	505	505	673
40°	214164	50675	270	629	809
45°	168178	23893	292	779	974
50°	108057	2786	429	965	1286
55°	16424	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: 168178 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.9	4.2
10°-20°	71.8	15.1
20°-30°	126.2	26.5
30°-40°	143.3	30.0
40°-50°	92.8	19.4
50°-60°	18.2	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°	217.9	45.7
0°-40°	361.1	75.7
0°-60°	472.1	99.0
0°-90°	477.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	477.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	182	182	182	182	182	
5°	412	334	169	68	46	44
15°	776	530	81	5	4	224
25°	974	578	18	2	3	457
35°	1053	389	2	2	3	647
45°	690	98	1	3	4	520
55°	55	1	2	4	5	104
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°	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5
2.5°	294.8	294.0	295.2	287.2	286.8	280.8	279.2	272.5	263.3	258.9	248.5
5°	412.1	408.1	408.1	398.5	395.3	388.5	377.0	362.6	350.6	334.3	316.7
7.5°	502.6	501.8	501.8	493.5	485.5	475.9	460.4	444.0	424.8	399.7	374.2
10°	574.0	575.2	571.7	564.1	552.5	542.1	523.8	503.8	480.3	454.0	420.1
12.5°	664.2	655.4	652.6	635.5	620.7	600.8	578.8	556.1	527.0	493.9	455.6
15°	775.9	764.7	753.6	730.8	706.1	675.4	641.1	607.6	570.1	529.8	481.9
17.5°	875.6	875.6	860.9	825.0	793.1	747.6	701.3	656.6	612.3	559.3	499.4
20°	943.8	940.3	929.1	902.8	866.5	815.0	754.8	692.1	638.7	578.8	509.4
22.5°	966.2	965.4	965.8	950.2	921.1	867.6	793.8	720.0	653.0	583.6	504.6
25°	974.2	975.8	979.7	973.8	951.8	898.4	817.8	733.2	657.4	578.0	486.3
27.5°	1007.3	1004.1	1008.5	1004.5	979.7	915.9	822.6	730.0	647.8	557.7	453.6
30°	1033.2	1032.4	1040.0	1036.4	1004.1	927.1	818.2	718.1	624.3	515.8	402.1
32.5°	1048.0	1048.4	1050.4	1035.6	987.7	902.8	796.6	693.7	580.0	461.2	335.1
35°	1052.7	1050.4	1039.2	1002.9	937.5	846.5	743.6	635.9	519.8	388.9	264.9
37.5°	1032.0	1019.6	990.9	936.7	860.9	775.9	675.8	562.9	437.2	307.2	197.5
40°	952.6	936.3	900.0	844.5	773.9	691.7	589.2	471.1	339.1	225.4	138.8
42.5°	833.7	825.4	787.5	739.2	679.4	596.4	490.7	371.0	250.9	155.6	88.6
45°	690.5	679.8	655.8	613.1	566.1	479.1	380.6	265.7	171.1	98.1	43.9
47.5°	517.8	518.6	502.2	469.9	423.7	351.0	260.5	178.3	107.3	50.7	10.0
50°	403.3	397.7	374.6	341.5	287.6	233.8	168.3	112.5	56.6	10.4	0.8
52.5°	223.4	227.0	214.6	203.8	175.9	139.6	99.3	57.0	12.0	1.2	0.8
55°	54.7	57.8	55.4	56.6	58.6	52.3	40.3	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°	181.5	181.5	181.5	181.5	181.5	181.5	181.5	181.5
2.5°	243.3	235.8	221.8	180.3	144.8	116.9	100.1	98.5
5°	301.2	280.8	251.3	169.1	106.9	67.8	49.1	46.3
7.5°	347.1	318.3	272.9	150.8	73.0	34.7	19.1	16.0
10°	385.0	344.3	284.0	129.2	45.9	14.8	8.0	6.8
12.5°	410.9	361.8	286.0	105.3	26.3	7.2	5.2	4.8
15°	427.6	367.4	276.5	81.0	14.8	4.8	4.4	4.0
17.5°	434.4	362.6	258.1	58.6	8.0	3.6	3.6	3.6
20°	431.2	347.1	231.0	41.1	5.2	3.2	3.2	3.2
22.5°	416.1	320.3	197.1	27.5	3.6	2.8	2.8	2.8
25°	386.2	284.0	161.2	18.4	2.4	2.4	2.8	2.8
27.5°	341.5	239.4	123.3	12.4	2.0	2.4	2.8	2.8
30°	285.2	189.5	88.6	8.0	2.0	2.4	2.4	2.8
32.5°	226.6	138.0	58.2	4.8	1.6	2.4	2.8	3.2
35°	164.4	94.1	37.1	2.4	2.0	2.4	2.8	3.2
37.5°	115.3	61.4	21.5	1.6	2.0	2.4	3.2	3.2
40°	75.0	34.3	8.0	1.2	2.0	2.8	3.2	3.6
42.5°	39.1	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)