

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: P1325149

Luminaire Tested: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325149
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: LDSQA3D05R45W2N902750DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

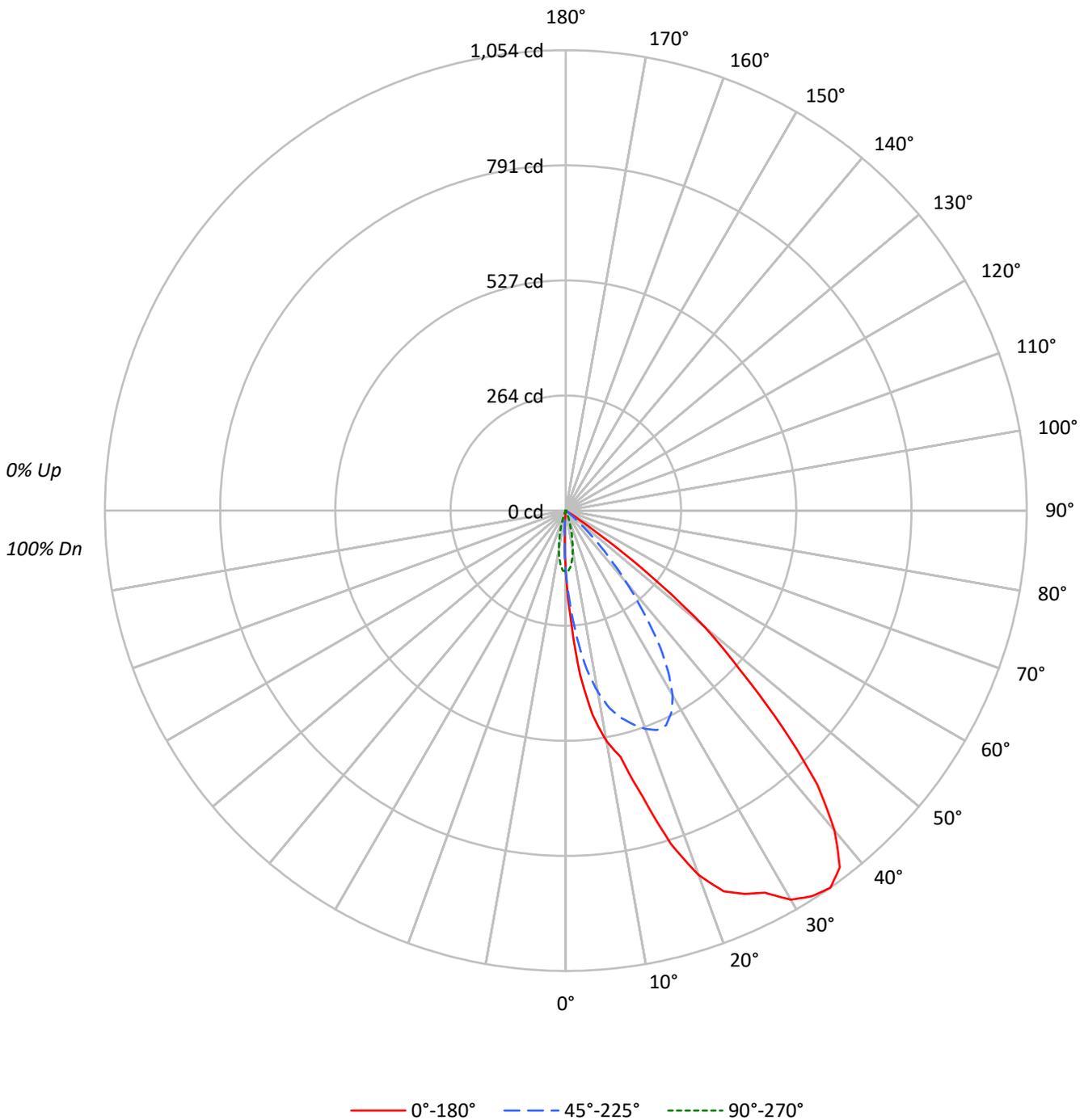
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 447.0 lumens
Efficiency: N/A
Efficacy: 75.8 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): 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	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°	23905	23905	23905	23905	23905
5°	65280	50222	22129	4443	1660
10°	93735	73677	16001	420	350
15°	120690	87633	8505	143	0
20°	162657	97503	3244	0	0
25°	183984	103013	836	0	0
30°	204513	97106	80	0	0
35°	221682	77433	0	0	0
40°	214861	48629	0	0	0
45°	170321	23163	0	0	0
50°	111486	2894	0	0	0
55°	19157	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: 170321 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	3.7
10°-20°	63.7	14.2
20°-30°	119.2	26.7
30°-40°	139.1	31.1
40°-50°	90.7	20.3
50°-60°	16.8	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°	199.4	44.6
0°-40°	338.6	75.7
0°-60°	446.1	99.8
0°-90°	447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	447.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	139	139	139	139	139	
5°	378	290	128	26	10	40
15°	677	492	48	1	0	202
25°	968	542	4	0	0	448
35°	1054	368	0	0	0	647
45°	699	95	0	0	0	532
55°	64	0	0	0	0	111
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°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
2.5°	244.8	246.8	242.7	241.1	235.9	237.1	228.3	224.7	219.1	209.8	205.4
5°	377.6	373.9	370.7	363.9	359.9	349.1	337.0	323.4	306.9	290.5	271.6
7.5°	472.3	469.4	468.2	462.6	454.6	443.4	427.7	410.5	389.2	367.1	338.6
10°	536.0	533.2	528.4	522.8	516.4	507.2	491.9	473.1	449.8	421.3	388.0
12.5°	577.8	577.4	569.3	562.9	554.9	546.9	531.2	516.0	493.1	463.8	426.1
15°	676.9	670.5	660.0	642.0	619.5	598.6	573.4	549.3	524.4	491.5	449.4
17.5°	800.5	793.2	775.6	752.7	716.6	676.9	633.5	595.4	558.1	513.6	463.8
20°	887.5	884.7	869.9	843.4	804.9	752.3	695.3	641.6	589.0	532.0	470.6
22.5°	943.3	941.7	935.7	917.6	878.3	819.3	745.9	673.7	610.3	543.7	468.6
25°	968.2	970.2	971.0	962.2	930.5	870.3	783.2	698.1	622.3	542.1	453.4
27.5°	985.8	985.8	989.0	985.0	952.9	889.5	797.6	706.6	618.3	522.4	421.3
30°	1028.4	1027.6	1029.6	1018.7	974.2	895.6	791.2	692.9	595.4	488.3	375.2
32.5°	1046.8	1047.6	1047.2	1030.0	978.2	891.5	775.6	666.8	553.3	434.9	314.2
35°	1054.4	1050.8	1036.0	996.7	931.3	838.2	731.4	622.7	494.3	368.3	248.0
37.5°	1029.2	1018.7	985.8	932.1	852.2	762.7	658.4	543.7	416.1	288.9	186.6
40°	955.7	942.1	900.8	835.8	762.7	682.1	572.2	451.0	325.4	216.3	130.8
42.5°	851.8	836.2	791.6	735.1	668.5	583.8	474.3	353.1	238.3	149.3	83.1
45°	699.3	690.5	664.8	617.1	551.7	463.8	363.5	257.6	164.9	95.1	42.5
47.5°	540.9	529.6	511.2	478.3	423.7	340.2	254.4	174.9	105.9	46.9	8.8
50°	416.1	402.8	380.4	343.9	286.9	227.1	164.9	109.1	53.8	10.8	0.4
52.5°	239.5	242.3	231.5	208.2	176.5	136.0	95.5	55.0	12.0	0.4	0.0
55°	63.8	69.0	67.4	72.6	63.8	53.8	39.7	10.4	0.8	0.0	0.0
57.5°	0.0	0.0	0.4	0.8	2.4	3.6	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°	138.8	138.8	138.8	138.8	138.8	138.8	138.8	138.8
2.5°	195.4	187.0	176.5	138.0	103.9	74.6	58.2	53.8
5°	253.6	233.1	206.6	128.0	64.2	25.7	11.6	9.6
7.5°	308.5	278.5	230.7	111.9	32.5	6.4	3.2	2.8
10°	351.1	310.6	248.4	91.5	12.0	2.4	2.0	2.0
12.5°	380.4	331.0	254.8	69.4	4.4	1.2	1.2	0.8
15°	397.2	339.0	248.8	47.7	1.6	0.8	0.0	0.0
17.5°	402.4	335.8	232.7	30.1	0.4	0.0	0.0	0.0
20°	398.0	320.2	207.4	17.7	0.0	0.0	0.0	0.0
22.5°	383.6	295.7	176.9	9.6	0.0	0.0	0.0	0.0
25°	356.7	261.2	141.2	4.4	0.0	0.0	0.0	0.0
27.5°	313.0	216.7	106.3	1.6	0.0	0.0	0.0	0.0
30°	263.2	168.9	75.4	0.4	0.0	0.0	0.0	0.0
32.5°	205.4	124.4	48.5	0.0	0.0	0.0	0.0	0.0
35°	154.5	87.1	28.9	0.0	0.0	0.0	0.0	0.0
37.5°	107.5	55.0	15.2	0.0	0.0	0.0	0.0	0.0
40°	67.0	29.7	5.2	0.0	0.0	0.0	0.0	0.0
42.5°	37.3	10.4	0.4	0.0	0.0	0.0	0.0	0.0
45°	8.8	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)