

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: P1325590

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA30R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325590
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R70W2N902750DE010 3LSQCA30R 1MMS_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

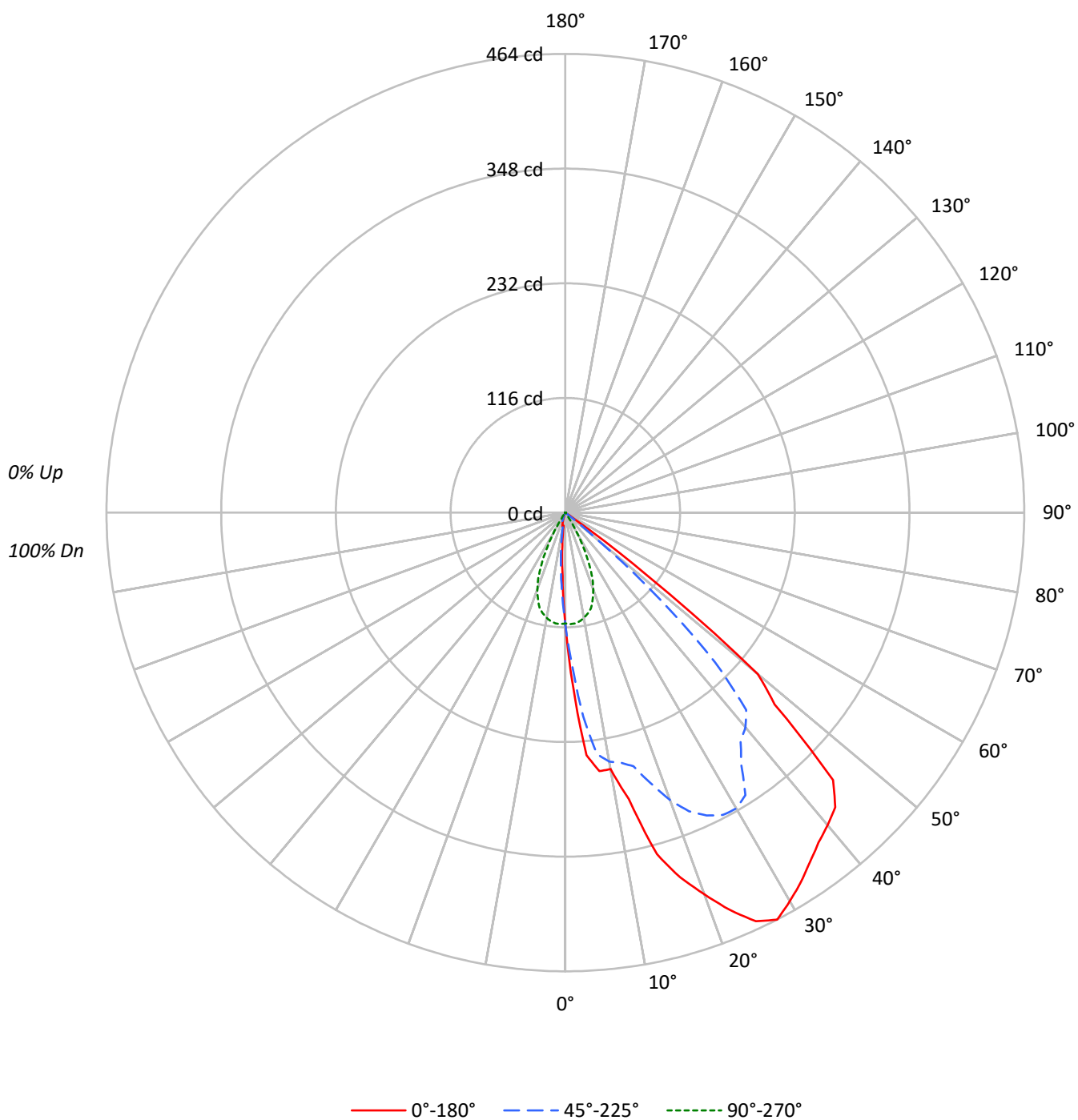
Lumens per Lamp: N/A
Luminaire Lumens: 302.0 lumens
Efficiency: N/A
Efficacy: 51.2 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	100		
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82		
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73		
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53		
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48		
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43		
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39		
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19306	19306	19306	19306	19306
5°	42580	35734	19449	8834	5826
10°	46063	44717	18922	2466	2536
15°	63759	47338	17865	2514	1819
20°	75290	56705	15157	1485	550
25°	86652	64229	10699	247	0
30°	90265	68728	4912	0	0
35°	90679	65134	273	0	0
40°	92739	63714	0	0	0
45°	93210	52219	0	0	0
50°	68054	10851	0	0	0
55°	3843	0	0	0	0
60°	0	138	138	0	0
65°	0	0	163	0	0
70°	0	201	201	0	0
75°	0	266	266	0	0
80°	0	397	397	397	0
85°	0	790	790	790	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 94964 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	4.1
10°-20°	40.9	13.6
20°-30°	73.6	24.4
30°-40°	89.5	29.6
40°-50°	69.1	22.9
50°-60°	16.1	5.3
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	126.8	42.0
0°-40°	216.3	71.6
0°-60°	301.4	99.8
0°-90°	302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	246	207	112	51	34	23
15°	358	266	100	14	10	100
25°	456	338	56	1	0	208
35°	431	310	1	0	0	271
45°	383	214	0	0	0	270
55°	13	0	0	0	0	53
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	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°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	174.7	174.7	175.6	175.2	171.3	169.6	164.1	161.1	160.2	153.4	150.9
5°	246.3	246.8	244.6	244.2	239.9	237.0	232.3	225.0	217.8	206.7	196.9
7.5°	263.8	263.4	262.9	262.9	262.1	260.4	258.3	256.1	253.1	246.3	238.7
10°	263.4	263.4	262.9	262.9	262.5	262.9	262.5	261.2	260.0	255.7	251.4
12.5°	296.6	294.1	290.6	285.5	277.0	270.6	263.4	261.2	260.4	259.1	256.6
15°	357.6	355.4	348.2	339.2	330.7	316.2	304.7	288.9	276.6	265.5	260.0
17.5°	387.0	388.2	380.1	374.6	366.5	355.0	341.4	325.2	307.7	286.8	270.2
20°	410.8	412.1	405.3	399.7	390.4	378.4	366.5	349.0	332.4	309.4	287.7
22.5°	435.1	436.0	429.6	421.5	410.8	398.5	383.1	365.2	347.3	326.9	303.9
25°	456.0	455.1	444.5	433.0	422.8	409.5	394.6	377.2	360.1	338.0	316.2
27.5°	464.1	463.7	451.7	440.7	428.7	410.8	397.6	382.3	364.4	344.8	322.6
30°	453.9	460.7	453.0	444.9	430.4	412.5	399.7	381.4	364.8	345.6	320.5
32.5°	443.2	451.7	449.2	445.3	428.3	414.2	397.6	380.6	361.0	338.8	300.5
35°	431.3	440.2	440.7	436.4	421.1	407.0	391.7	373.8	351.6	309.8	281.7
37.5°	420.6	429.2	431.7	422.8	410.8	392.1	378.0	359.3	319.2	291.1	276.6
40°	412.5	418.9	422.8	408.7	396.8	378.4	362.2	329.4	293.2	283.4	262.9
42.5°	404.0	410.0	411.7	396.3	378.0	360.5	337.1	295.8	285.1	270.6	215.6
45°	382.7	389.9	385.7	370.8	357.1	338.8	303.9	286.0	274.5	214.4	132.5
47.5°	287.2	295.3	306.8	311.1	315.8	302.6	283.4	277.0	225.4	130.0	41.3
50°	254.0	252.7	252.7	254.8	258.7	262.9	268.5	233.5	135.5	40.5	0.0
52.5°	103.6	108.7	133.8	156.4	182.4	208.4	216.5	143.2	52.8	0.9	0.0
55°	12.8	12.8	17.9	30.7	50.7	81.8	92.1	46.0	3.8	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	3.4	9.4	6.4	1.7	0.4	0.4	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4
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	0.0	0.0
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	0.0	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	0.0	0.4	0.4	0.4
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	112.1	112.1	112.1	112.1	112.1	112.1	112.1	112.1
2.5°	146.6	141.5	134.2	112.9	94.6	78.4	69.0	64.4
5°	187.5	175.2	158.5	112.5	76.7	51.1	38.4	33.7
7.5°	226.7	212.7	184.5	110.8	58.8	29.8	16.6	13.2
10°	243.8	233.5	208.4	108.2	42.6	14.1	14.1	14.5
12.5°	250.6	242.9	222.5	104.4	28.1	13.6	14.5	13.6
15°	255.3	248.0	229.3	100.2	16.2	14.1	11.5	10.2
17.5°	257.8	249.3	231.4	92.1	10.7	11.9	7.2	6.0
20°	265.9	252.3	233.1	82.7	10.2	8.1	3.8	3.0
22.5°	279.6	258.3	233.5	71.2	8.1	4.7	1.3	0.0
25°	291.9	266.4	234.8	56.3	2.6	1.3	0.0	0.0
27.5°	297.9	268.9	234.4	39.6	0.0	0.0	0.0	0.0
30°	290.6	262.5	230.6	24.7	0.0	0.0	0.0	0.0
32.5°	273.6	257.8	218.6	10.7	0.0	0.0	0.0	0.0
35°	268.1	247.6	191.4	1.3	0.0	0.0	0.0	0.0
37.5°	255.7	218.2	140.6	0.0	0.0	0.0	0.0	0.0
40°	219.9	157.7	66.9	0.0	0.0	0.0	0.0	0.0
42.5°	145.3	67.3	3.8	0.0	0.0	0.0	0.0	0.0
45°	51.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.9	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	0.0	0.0	0.0	0.0	0.0
60°	0.4	0.4	0.4	0.4	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
65°	0.0	0.0	0.4	0.4	0.0	0.0	0.0	0.0
67.5°	0.4	0.4	0.4	0.4	0.0	0.0	0.0	0.0
70°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
72.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
75°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
77.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.0	0.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)