

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: P1325589

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325589
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

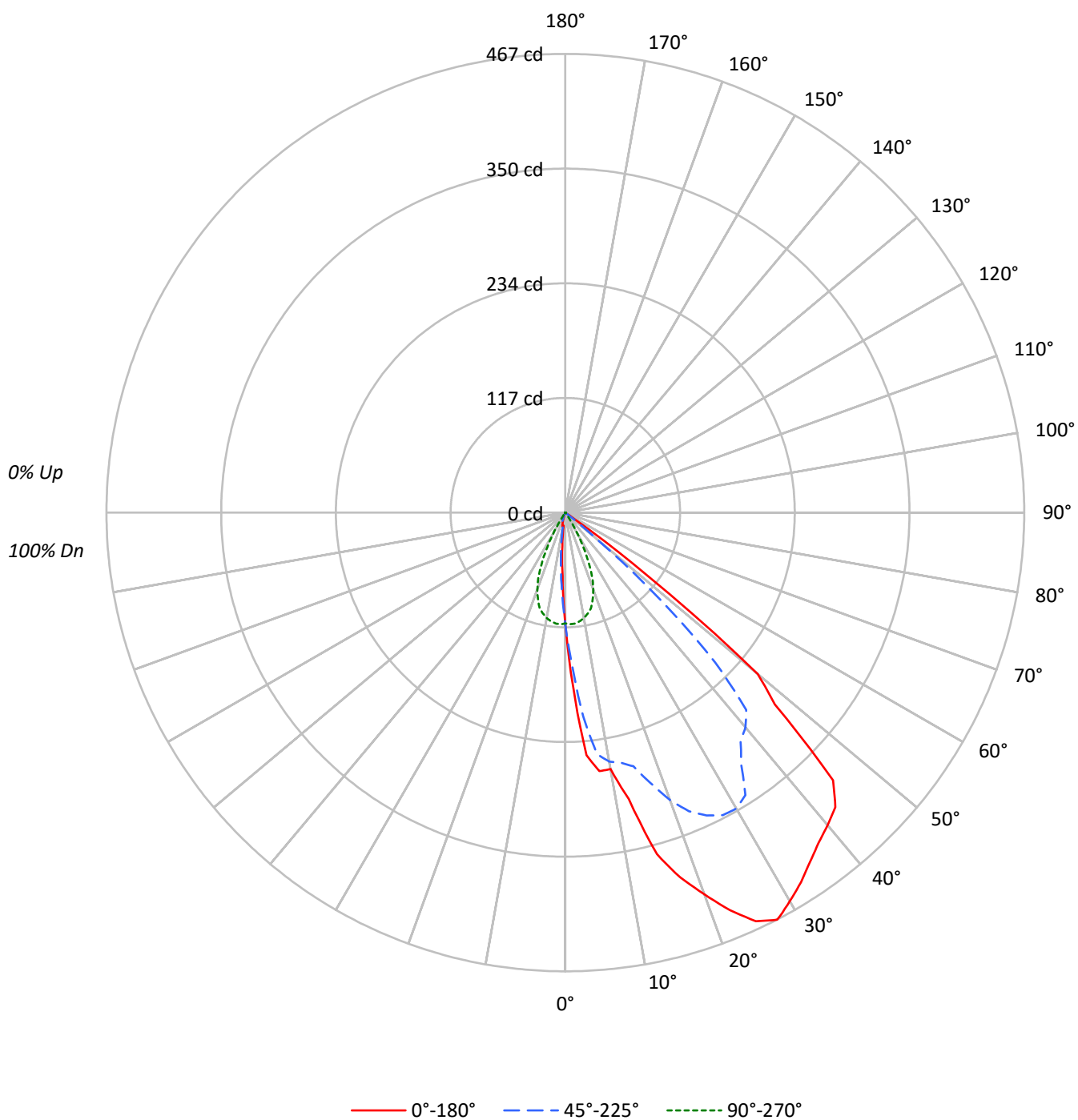
Lumens per Lamp: N/A
Luminaire Lumens: 304.0 lumens
Efficiency: N/A
Efficacy: 51.5 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	19427	19427	19427	19427	19427
5°	42874	35976	19587	8903	5861
10°	46361	45014	19062	2483	2553
15°	64169	47659	17972	2532	1836
20°	75784	57072	15249	1503	550
25°	87222	64647	10756	247	0
30°	90862	69185	4952	0	0
35°	91267	65575	273	0	0
40°	93368	64141	0	0	0
45°	93819	52560	0	0	0
50°	68510	10932	0	0	0
55°	3873	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: 95597 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	4.1
10°-20°	41.2	13.6
20°-30°	74.1	24.4
30°-40°	90.1	29.6
40°-50°	69.5	22.9
50°-60°	16.2	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°	127.6	42.0
0°-40°	217.7	71.6
0°-60°	303.4	99.8
0°-90°	304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	113	113	113	113	113	
5°	248	208	113	52	34	23
15°	360	267	101	14	10	101
25°	459	340	57	1	0	209
35°	434	312	1	0	0	273
45°	385	216	0	0	0	272
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°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	175.9	175.9	176.7	176.3	172.5	170.7	165.2	162.2	161.3	154.4	151.9
5°	248.0	248.4	246.2	245.8	241.5	238.5	233.8	226.5	219.2	208.1	198.2
7.5°	265.5	265.1	264.7	264.7	263.8	262.1	260.0	257.8	254.8	248.0	240.2
10°	265.1	265.1	264.7	264.7	264.3	264.7	264.3	263.0	261.7	257.4	253.1
12.5°	298.6	296.0	292.6	287.4	278.8	272.4	265.1	263.0	262.1	260.8	258.3
15°	359.9	357.8	350.5	341.5	332.9	318.3	306.7	290.9	278.4	267.3	261.7
17.5°	389.5	390.8	382.7	377.1	368.9	357.4	343.6	327.3	309.7	288.7	272.0
20°	413.5	414.8	408.0	402.4	393.0	380.9	368.9	351.3	334.6	311.4	289.6
22.5°	438.0	438.9	432.4	424.3	413.5	401.1	385.7	367.6	349.6	329.0	305.9
25°	459.0	458.2	447.4	435.9	425.6	412.3	397.2	379.7	362.5	340.2	318.3
27.5°	467.2	466.7	454.7	443.6	431.6	413.5	400.3	384.8	366.8	347.1	324.7
30°	456.9	463.7	456.0	447.9	433.3	415.3	402.4	383.9	367.2	347.9	322.6
32.5°	446.2	454.7	452.2	448.3	431.1	417.0	400.3	383.1	363.4	341.0	302.4
35°	434.1	443.1	443.6	439.3	423.8	409.7	394.2	376.2	353.9	311.9	283.6
37.5°	423.4	432.0	434.6	425.6	413.5	394.7	380.5	361.6	321.3	293.0	278.4
40°	415.3	421.7	425.6	411.4	399.4	380.9	364.6	331.6	295.1	285.3	264.7
42.5°	406.7	412.7	414.4	399.0	380.5	362.9	339.3	297.7	287.0	272.4	217.1
45°	385.2	392.5	388.2	373.2	359.5	341.0	305.9	287.9	276.3	215.8	133.4
47.5°	289.1	297.3	308.9	313.2	317.9	304.6	285.3	278.8	226.9	130.8	41.6
50°	255.7	254.4	254.4	256.5	260.4	264.7	270.3	235.1	136.4	40.8	0.0
52.5°	104.2	109.4	134.7	157.4	183.6	209.8	217.9	144.1	53.2	0.9	0.0
55°	12.9	12.9	18.0	30.9	51.1	82.4	92.7	46.3	3.9	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°	112.8	112.8	112.8	112.8	112.8	112.8	112.8	112.8
2.5°	147.6	142.4	135.1	113.7	95.2	78.9	69.5	64.8
5°	188.8	176.3	159.6	113.3	77.2	51.5	38.6	33.9
7.5°	228.2	214.1	185.8	111.5	59.2	30.0	16.7	13.3
10°	245.4	235.1	209.8	109.0	42.9	14.2	14.2	14.6
12.5°	252.2	244.5	223.9	105.1	28.3	13.7	14.6	13.7
15°	257.0	249.7	230.8	100.8	16.3	14.2	11.6	10.3
17.5°	259.5	251.0	232.9	92.7	10.7	12.0	7.3	6.0
20°	267.7	254.0	234.7	83.2	10.3	8.2	3.9	3.0
22.5°	281.4	260.0	235.1	71.6	8.2	4.7	1.3	0.0
25°	293.9	268.1	236.4	56.6	2.6	1.3	0.0	0.0
27.5°	299.9	270.7	235.9	39.9	0.0	0.0	0.0	0.0
30°	292.6	264.3	232.1	24.9	0.0	0.0	0.0	0.0
32.5°	275.4	259.5	220.1	10.7	0.0	0.0	0.0	0.0
35°	269.8	249.2	192.6	1.3	0.0	0.0	0.0	0.0
37.5°	257.4	219.6	141.6	0.0	0.0	0.0	0.0	0.0
40°	221.4	158.7	67.4	0.0	0.0	0.0	0.0	0.0
42.5°	146.3	67.8	3.9	0.0	0.0	0.0	0.0	0.0
45°	51.5	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)