

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: P1327287

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327287
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

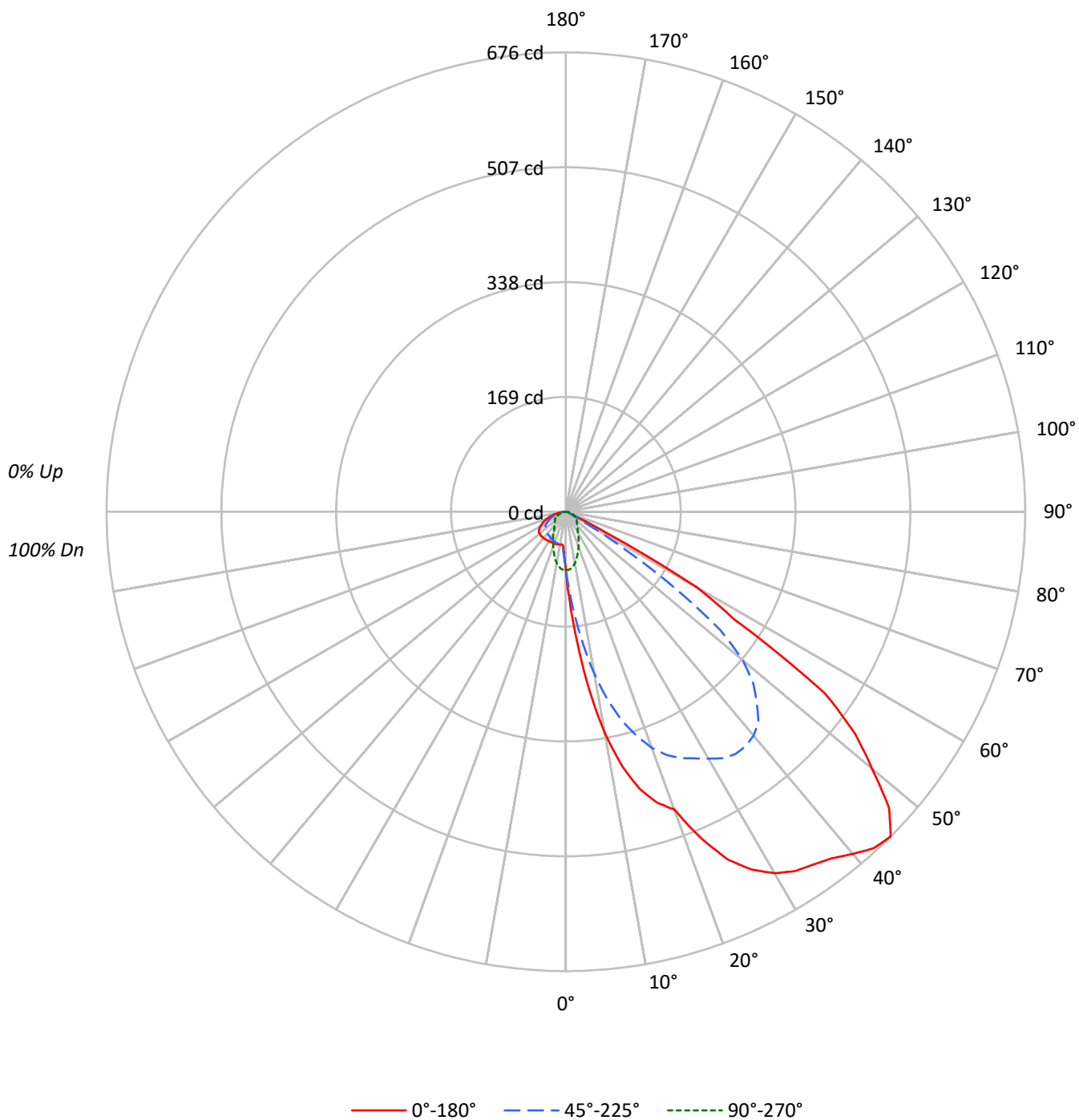
Lumens per Lamp: N/A
Luminaire Lumens: 584.0 lumens
Efficiency: N/A
Efficacy: 64.9 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87		
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75		
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64		
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54		
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47		
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41		
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28		
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14656	14656	14656	14656	14656
5°	33349	26693	14505	9163	8558
10°	57780	42391	13448	8359	8552
15°	75420	56610	11732	8523	8826
20°	85425	67702	10043	8651	9182
25°	107289	75954	8418	8741	9406
30°	122123	83424	7179	8929	9963
35°	133274	91499	6244	9062	10533
40°	147752	96673	5755	9442	11398
45°	164622	96791	5675	9937	12348
50°	157677	91016	5627	10449	13423
55°	139621	58971	5765	11020	14533
60°	76467	12641	5821	11229	15052
65°	5461	3097	5705	11166	15200
70°	2618	2921	5287	10574	14653
75°	2329	3127	5057	10048	13575
80°	2281	2876	4661	9224	12695
85°	2371	3359	4545	8102	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 164622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	1.9
10°-20°	47.5	8.1
20°-30°	91.1	15.6
30°-40°	128.8	22.1
40°-50°	145.7	24.9
50°-60°	115.4	19.8
60°-70°	31.1	5.3
70°-80°	10.3	1.8
80°-90°	3.2	0.5
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°	149.6	25.6
0°-40°	278.4	47.7
0°-60°	539.4	92.4
0°-90°	584.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	584.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	193	154	84	53	50	23
15°	423	318	66	48	50	119
25°	565	400	44	46	50	259
35°	634	435	30	43	50	399
45°	676	397	23	41	51	506
55°	465	196	19	37	48	377
65°	13	8	14	27	37	48
75°	4	5	8	15	20	4
85°	1	2	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1	85.1
2.5°	132.3	132.3	131.7	129.3	128.2	125.3	122.9	116.5	100.8	85.7	73.4
5°	192.9	195.8	191.7	191.1	187.6	182.4	178.9	154.4	116.5	83.9	62.9
7.5°	264.5	265.7	264.5	258.7	253.5	244.7	236.6	198.1	132.3	81.0	55.4
10°	330.4	328.6	325.1	321.0	313.5	304.1	290.2	242.4	147.4	76.9	50.7
12.5°	384.0	383.4	379.3	375.2	365.9	353.7	339.7	282.6	160.2	71.7	48.4
15°	423.0	423.0	418.9	414.3	405.5	395.6	379.9	317.5	170.7	65.8	46.0
17.5°	449.2	448.1	445.2	441.7	434.7	424.8	412.5	345.5	177.7	60.0	45.4
20°	466.1	465.5	463.2	458.0	452.1	444.6	433.5	369.4	180.6	54.8	44.9
22.5°	520.3	515.7	506.9	495.8	481.9	463.8	448.6	387.5	179.5	48.9	43.7
25°	564.6	562.8	553.5	540.1	521.5	498.2	473.1	399.7	173.6	44.3	42.5
27.5°	593.7	590.8	582.1	567.5	547.7	525.0	501.7	409.0	165.5	40.2	40.8
30°	614.1	612.4	603.6	587.3	566.9	541.9	518.0	419.5	154.4	36.1	39.0
32.5°	626.9	625.2	616.5	601.9	582.1	555.9	528.5	430.0	141.0	32.6	37.3
35°	633.9	632.2	622.3	609.5	590.8	565.2	536.0	435.2	124.7	29.7	35.5
37.5°	642.7	639.2	625.8	610.0	591.4	567.5	538.4	434.7	108.4	27.4	34.4
40°	657.2	647.9	628.7	607.7	588.5	564.6	536.6	430.0	90.3	25.6	33.2
42.5°	671.2	657.8	629.3	604.2	582.7	559.4	530.2	419.5	70.5	24.5	32.6
45°	675.9	656.1	621.1	596.1	575.7	551.8	521.5	397.4	47.8	23.3	31.5
47.5°	645.0	630.4	601.3	582.7	563.4	540.1	508.7	374.1	27.4	22.1	30.3
50°	588.5	579.2	562.8	551.2	540.7	524.4	493.5	339.7	16.3	21.0	29.1
52.5°	536.0	533.1	521.5	512.2	506.3	498.8	470.8	286.7	13.4	20.4	28.0
55°	465.0	455.6	452.7	449.2	461.5	460.9	423.0	196.4	12.8	19.2	26.8
57.5°	291.9	296.0	311.1	339.1	372.3	391.5	390.4	104.9	12.2	18.1	25.1
60°	222.0	221.4	226.1	237.7	262.2	289.6	315.2	36.7	11.7	16.9	23.9
62.5°	66.4	68.2	82.2	120.6	144.5	178.3	162.6	8.7	11.1	15.1	21.6
65°	13.4	14.0	14.0	15.7	19.2	29.1	35.5	7.6	10.5	14.0	19.8
67.5°	5.8	5.8	5.8	6.4	6.4	7.6	6.4	7.0	9.3	12.2	17.5
70°	5.2	5.2	5.2	5.2	5.2	5.2	5.8	5.8	8.2	10.5	15.1
72.5°	4.1	4.1	4.1	4.7	4.7	4.7	4.7	5.2	7.0	8.7	12.8
75°	3.5	3.5	3.5	3.5	4.1	4.1	4.1	4.7	5.8	7.6	10.5
77.5°	2.9	2.9	2.9	2.9	2.9	3.5	3.5	3.5	4.7	5.8	8.7
80°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.9	3.5	4.7	6.4
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.9	3.5	4.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.7	1.7	2.3	2.9
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.7
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):

	135°	157.5°	180°
0°	85.1	85.1	85.1
2.5°	64.7	61.2	59.4
5°	53.0	50.1	49.5
7.5°	48.9	48.4	48.4
10°	47.8	48.4	48.9
12.5°	47.8	48.9	49.5
15°	47.8	48.9	49.5
17.5°	47.8	48.9	49.5
20°	47.2	48.9	50.1
22.5°	46.6	48.9	49.5
25°	46.0	48.9	49.5
27.5°	45.4	48.4	49.5
30°	44.9	48.4	50.1
32.5°	43.7	48.4	50.1
35°	43.1	48.4	50.1
37.5°	42.5	48.4	50.7
40°	42.0	48.4	50.7
42.5°	41.4	48.4	50.7
45°	40.8	47.8	50.7
47.5°	39.6	47.8	50.7
50°	39.0	47.2	50.1
52.5°	37.9	46.6	50.1
55°	36.7	45.4	48.4
57.5°	35.0	43.7	46.0
60°	32.6	41.4	43.7
62.5°	29.7	38.5	40.2
65°	27.4	35.0	37.3
67.5°	23.9	30.9	33.2
70°	21.0	26.8	29.1
72.5°	18.1	22.7	25.1
75°	15.1	18.6	20.4
77.5°	11.7	15.1	16.3
80°	9.3	11.7	12.8
82.5°	6.4	8.2	8.7
85°	4.1	5.2	5.8
87.5°	1.7	2.3	2.3
90°	0.0	0.0	0.0

(END OF REPORT)