

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: P1325591

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325591
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R70W2N902750DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

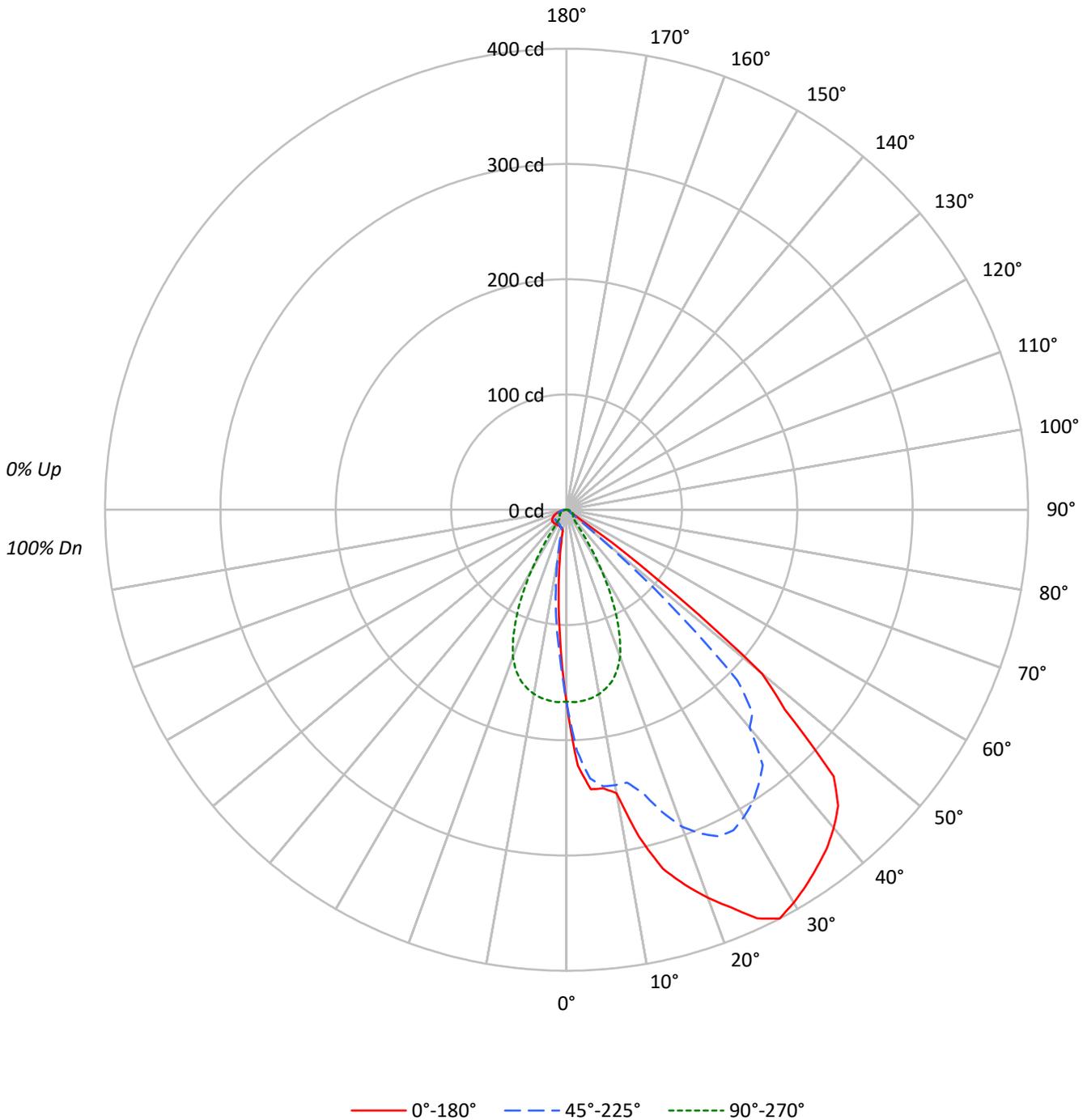
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 316.0 lumens
Efficiency: N/A
Efficacy: 53.6 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
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	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	90		
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	80		
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	71		
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	64		
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	57		
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	51		
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	46		
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	42		
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	38		
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	35		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28658	28658	28658	28658	28658
5°	42096	40471	28767	17167	13450
10°	43650	42443	28400	8219	3323
15°	57465	45270	27369	2942	2871
20°	65649	53626	24907	2822	2896
25°	74338	59421	19554	2717	2869
30°	78293	61171	12131	2705	3063
35°	79599	61055	3995	2796	3238
40°	81025	55531	1933	2990	3552
45°	79741	51001	1997	3142	3848
50°	59266	9404	2009	3456	4233
55°	4744	1291	2162	3663	4534
60°	999	1343	2101	3720	4684
65°	1019	1304	2038	3668	4809
70°	906	1259	1964	3424	4683
75°	732	1198	1664	3327	4525
80°	694	1091	1785	3174	4265
85°	790	1383	2174	2766	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 80691 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	4.8
10°-20°	42.6	13.5
20°-30°	71.5	22.6
30°-40°	86.0	27.2
40°-50°	68.2	21.6
50°-60°	21.8	6.9
60°-70°	6.1	1.9
70°-80°	3.6	1.1
80°-90°	1.1	0.4
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°	129.2	40.9
0°-40°	215.2	68.1
0°-60°	305.1	96.6
0°-90°	316.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	316.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	166	166	166	166	166	
5°	244	234	166	99	78	23
15°	322	254	154	16	16	91
25°	391	313	103	14	15	179
35°	379	290	19	13	15	237
45°	327	209	8	13	16	235
55°	16	4	7	12	15	49
65°	2	3	5	9	12	2
75°	1	2	2	5	7	1
85°	0	1	1	1	2	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°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4
2.5°	221.9	223.4	223.4	221.6	222.3	219.4	217.3	214.1	213.3	209.4	204.4
5°	243.5	242.7	242.7	241.3	242.0	241.0	239.9	239.2	237.0	234.1	231.3
7.5°	243.8	244.5	244.9	244.5	246.0	244.9	244.9	244.9	243.5	242.0	239.2
10°	249.6	248.5	247.4	244.9	243.5	242.4	242.4	242.7	243.5	242.7	241.0
12.5°	290.8	286.8	285.1	279.0	274.3	266.4	257.4	250.6	244.5	242.4	241.0
15°	322.3	321.6	318.0	312.3	306.6	297.2	286.8	276.5	265.3	253.9	245.6
17.5°	341.0	339.6	336.0	329.9	323.1	314.5	306.2	298.3	287.6	274.7	261.4
20°	358.2	355.0	350.3	343.1	336.3	328.1	319.1	311.6	302.6	292.6	277.2
22.5°	373.6	370.8	363.2	353.5	346.7	338.8	331.0	323.8	315.5	304.1	290.1
25°	391.2	384.7	372.5	360.0	351.7	345.3	339.6	333.8	325.2	312.7	296.2
27.5°	399.8	390.8	377.6	365.0	357.1	350.3	344.2	338.5	328.8	313.4	294.4
30°	393.7	388.7	379.4	369.7	363.2	356.8	349.6	341.0	325.6	307.6	290.1
32.5°	386.5	384.0	379.7	374.0	370.0	363.6	353.5	339.6	318.0	300.5	281.5
35°	378.6	377.6	376.1	373.6	371.1	365.0	352.5	332.0	310.5	290.4	272.1
37.5°	370.4	369.3	370.4	370.0	367.9	360.0	341.0	322.0	299.8	279.3	243.8
40°	360.4	359.6	361.4	363.2	360.7	350.3	329.9	306.9	287.2	247.0	234.9
42.5°	348.5	348.2	351.4	352.8	349.2	333.8	309.8	292.9	251.4	238.4	209.8
45°	327.4	328.1	329.5	331.3	329.2	312.3	290.4	259.6	241.3	209.4	119.4
47.5°	256.4	257.1	264.3	279.3	289.7	284.0	265.3	242.4	215.9	119.8	37.6
50°	221.2	220.5	220.9	224.5	232.7	240.6	234.9	222.3	128.7	35.1	4.7
52.5°	97.2	107.9	119.4	151.7	172.5	194.3	198.6	139.1	42.0	4.7	4.7
55°	15.8	16.5	20.8	30.5	54.9	82.8	100.4	46.6	4.3	4.3	4.3
57.5°	3.2	3.2	3.2	3.6	5.4	11.5	13.3	3.9	3.9	3.9	4.3
60°	2.9	2.9	2.9	2.9	3.2	3.2	3.2	3.6	3.6	3.9	3.9
62.5°	2.9	2.9	2.9	2.9	2.9	2.9	3.2	3.2	3.6	3.6	3.9
65°	2.5	2.5	2.5	2.5	2.9	2.9	2.9	2.9	3.2	3.2	3.6
67.5°	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.9	2.9	2.9	3.2
70°	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.5	2.5	2.5
72.5°	1.4	1.4	1.4	1.4	1.8	1.8	1.8	1.8	2.2	2.2	2.2
75°	1.1	1.1	1.4	1.4	1.4	1.4	1.4	1.4	1.8	1.8	1.8
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1
82.5°	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	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°	166.4	166.4	166.4	166.4	166.4	166.4	166.4	166.4
2.5°	201.2	196.1	189.3	167.1	146.7	128.0	118.7	117.6
5°	226.6	221.9	210.5	166.4	127.3	99.3	82.5	77.8
7.5°	236.3	232.3	222.3	164.9	109.0	71.4	52.4	45.2
10°	238.8	236.3	227.7	162.4	90.0	47.0	24.7	19.0
12.5°	239.9	238.1	229.8	158.5	71.0	24.4	16.9	16.9
15°	241.7	239.9	232.0	153.5	52.4	16.5	16.1	16.1
17.5°	249.6	243.8	234.9	145.9	34.4	15.8	15.8	15.8
20°	262.5	249.9	236.3	135.9	21.5	15.4	15.4	15.8
22.5°	273.2	256.4	235.9	120.8	15.8	14.7	15.1	15.4
25°	277.9	259.2	232.7	102.9	13.6	14.3	15.1	15.1
27.5°	277.2	260.3	229.8	82.5	12.9	14.0	14.7	15.4
30°	273.2	257.4	223.4	61.0	12.2	13.6	14.7	15.4
32.5°	266.4	246.3	210.5	39.4	11.8	13.6	14.7	15.4
35°	244.2	228.4	191.8	19.0	11.5	13.3	15.1	15.4
37.5°	231.3	209.4	146.3	9.3	11.1	13.3	15.1	15.4
40°	210.5	156.3	66.0	8.6	11.1	13.3	15.1	15.8
42.5°	132.3	64.2	10.8	8.2	10.8	13.3	15.1	15.8
45°	48.4	8.6	5.7	8.2	10.8	12.9	15.1	15.8
47.5°	5.0	5.0	5.4	7.9	10.4	12.9	15.1	15.8
50°	4.7	5.0	5.4	7.5	10.0	12.9	14.7	15.8
52.5°	4.7	5.0	5.4	7.5	9.7	12.5	14.7	15.8
55°	4.7	5.0	5.0	7.2	9.3	12.2	14.3	15.1
57.5°	4.3	4.7	5.0	6.8	9.0	11.5	14.0	14.7
60°	4.3	4.7	5.0	6.1	8.6	10.8	13.3	13.6
62.5°	3.9	4.3	4.7	5.7	7.9	10.0	12.2	12.9
65°	3.9	3.9	4.3	5.0	7.2	9.0	11.1	11.8
67.5°	3.2	3.6	3.6	4.3	6.1	7.9	10.0	10.8
70°	2.9	2.9	3.2	3.9	5.4	6.8	8.6	9.3
72.5°	2.5	2.5	2.5	3.2	4.7	6.1	7.5	8.2
75°	2.2	2.2	2.2	2.5	3.9	5.0	6.5	6.8
77.5°	1.8	1.8	1.8	2.2	3.2	4.3	5.0	5.7
80°	1.4	1.4	1.4	1.8	2.5	3.2	3.9	4.3
82.5°	1.1	1.1	1.1	1.4	1.8	2.2	2.9	2.9
85°	0.7	0.7	0.7	1.1	1.1	1.4	1.8	1.8
87.5°	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)