

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: P1325459

Luminaire Tested: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R60W2N902750DE010 3LSQCA45R 1MMS_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R60 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

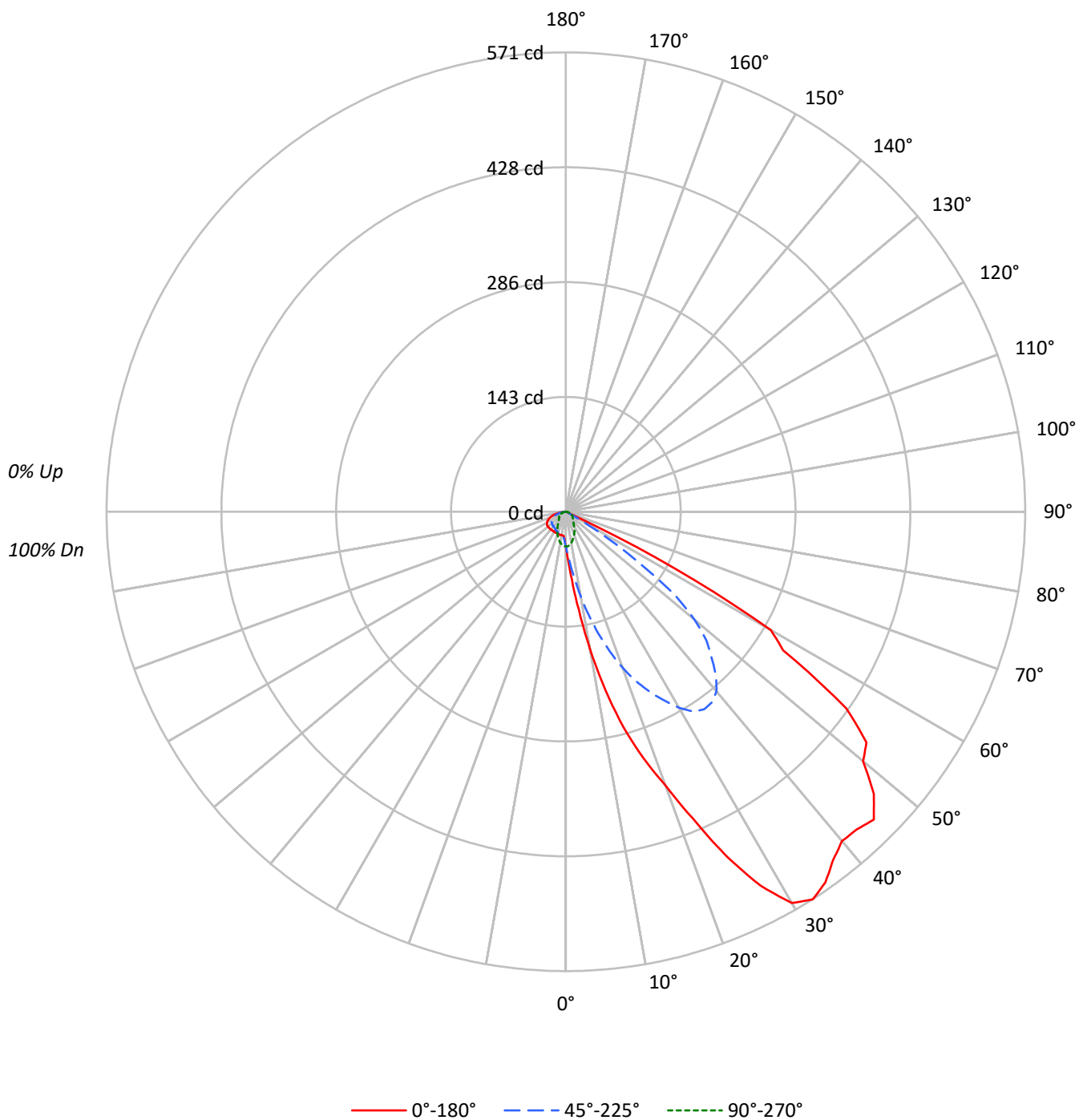
Lumens per Lamp: N/A
Luminaire Lumens: 435.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	110	106	102	99	108	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	7423	7423	7423	7423	7423
5°	14626	11410	7313	5532	5256
10°	30219	18607	6838	5054	5124
15°	49424	27921	6133	5081	5224
20°	66309	37828	5517	5077	5297
25°	89712	46956	4808	5036	5492
30°	111663	55901	4017	5031	5747
35°	118221	63010	3406	5151	5992
40°	120099	65513	3103	5328	6497
45°	131839	62400	2996	5675	7039
50°	129250	55944	2974	6028	7743
55°	127761	34320	2973	6516	8557
60°	101336	8163	3134	6958	9266
65°	6439	1467	3056	7091	9984
70°	1410	1611	2971	7352	10574
75°	1331	1597	2662	7120	10780
80°	1190	1587	2777	7042	10215
85°	790	1581	3162	6323	10078

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 139162 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.4	1.2
10°-20°	27.1	6.2
20°-30°	62.9	14.5
30°-40°	97.8	22.5
40°-50°	111.4	25.6
50°-60°	93.8	21.6
60°-70°	27.2	6.3
70°-80°	7.0	1.6
80°-90°	2.4	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°	95.4	21.9
0°-40°	193.2	44.4
0°-60°	398.4	91.6
0°-90°	435.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	435.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	43	43	43	43	43	
5°	85	66	42	32	30	11
15°	277	157	34	28	29	80
25°	472	247	25	26	29	219
35°	562	300	16	24	28	349
45°	541	256	12	23	29	407
55°	426	114	10	22	28	358
65°	16	4	8	17	24	78
75°	2	2	4	11	16	2
85°	0	1	2	3	5	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1	43.1
2.5°	58.1	57.7	57.7	57.3	56.9	56.5	55.4	55.0	52.6	47.8	43.1
5°	84.6	84.2	83.0	82.6	80.7	77.9	75.1	72.4	66.0	52.6	42.3
7.5°	122.6	123.4	122.6	118.2	115.5	111.1	102.8	96.9	84.2	57.3	40.7
10°	172.8	172.8	171.6	164.9	159.0	150.7	140.0	129.7	106.4	61.7	39.1
12.5°	227.4	228.6	222.6	217.1	206.4	196.1	181.5	166.1	131.7	65.2	37.2
15°	277.2	276.4	270.5	263.4	252.3	238.0	222.6	202.9	156.6	67.6	34.4
17.5°	321.5	319.9	314.8	306.8	293.4	277.6	257.8	236.5	182.3	69.6	32.4
20°	361.8	356.3	350.3	342.0	329.0	312.4	291.8	267.7	206.4	69.6	30.1
22.5°	412.8	407.3	399.0	386.3	368.9	348.4	324.2	297.0	227.8	68.0	27.7
25°	472.1	467.8	453.5	437.3	414.8	390.3	362.2	325.4	247.1	65.6	25.3
27.5°	523.9	519.2	505.0	481.2	453.9	424.7	395.0	357.5	264.1	61.3	22.5
30°	561.5	555.6	544.5	522.0	488.7	453.2	418.0	382.0	281.1	56.1	20.2
32.5°	571.4	570.6	562.3	545.7	516.0	476.9	435.0	395.8	294.6	49.4	18.2
35°	562.3	563.5	561.9	553.6	531.8	493.5	446.0	403.3	299.7	42.7	16.2
37.5°	545.7	547.3	550.0	551.2	537.4	503.4	452.4	406.5	298.5	36.0	15.0
40°	534.2	533.4	533.4	541.3	538.6	507.7	453.2	404.1	291.4	28.9	13.8
42.5°	535.4	526.7	520.8	533.4	537.4	505.7	448.0	397.8	276.0	22.1	12.7
45°	541.3	522.7	512.5	528.7	535.0	499.0	438.5	388.3	256.2	15.4	12.3
47.5°	519.2	506.9	505.3	528.3	530.7	487.6	423.9	373.3	237.3	10.7	11.5
50°	482.4	480.4	488.7	512.5	512.9	468.6	407.3	346.0	208.8	7.5	11.1
52.5°	470.9	472.1	479.6	491.9	480.4	436.5	377.2	323.1	172.8	5.9	10.7
55°	425.5	427.4	434.6	442.1	433.8	397.4	340.9	295.4	114.3	5.5	9.9
57.5°	320.3	325.4	338.5	345.2	346.0	323.8	308.8	254.7	64.5	5.5	9.5
60°	294.2	287.5	281.5	267.7	255.0	252.3	253.9	191.0	23.7	5.1	9.1
62.5°	153.8	150.7	159.7	165.7	167.3	176.0	164.5	100.8	5.1	5.1	8.3
65°	15.8	15.8	19.4	25.7	42.7	56.9	54.2	29.3	3.6	4.7	7.5
67.5°	4.7	4.7	4.7	5.5	7.1	7.1	5.9	4.3	3.6	4.3	6.7
70°	2.8	2.8	2.8	2.8	2.8	2.8	3.2	2.8	3.2	4.0	5.9
72.5°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	2.8	2.8	3.6	5.1
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.8	4.0
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.4	3.2
80°	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6	2.0	2.8
82.5°	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	1.2
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):

	112.5°	135°	157.5°	180°
0°	43.1	43.1	43.1	43.1
2.5°	39.1	36.4	34.8	34.0
5°	35.6	32.0	30.8	30.4
7.5°	32.4	30.1	29.7	29.7
10°	30.4	28.9	29.3	29.3
12.5°	29.3	28.9	29.3	29.7
15°	28.1	28.5	29.3	29.3
17.5°	27.3	28.1	28.9	29.3
20°	26.1	27.7	28.9	28.9
22.5°	25.3	27.3	28.5	28.9
25°	24.5	26.5	28.1	28.9
27.5°	23.3	26.1	28.1	28.5
30°	22.1	25.3	27.7	28.9
32.5°	21.0	24.9	27.7	28.5
35°	20.2	24.5	27.7	28.5
37.5°	19.4	24.1	27.7	28.9
40°	19.0	23.7	27.3	28.9
42.5°	18.2	23.7	27.3	28.9
45°	17.8	23.3	27.3	28.9
47.5°	17.4	22.9	27.3	28.9
50°	16.6	22.5	26.9	28.9
52.5°	16.2	22.1	26.9	28.9
55°	15.4	21.7	26.5	28.5
57.5°	15.0	21.0	26.1	27.7
60°	14.2	20.2	25.3	26.9
62.5°	13.0	19.0	24.1	26.1
65°	11.9	17.4	22.9	24.5
67.5°	10.7	16.2	21.4	22.9
70°	9.5	14.6	19.4	21.0
72.5°	8.3	12.7	17.4	18.6
75°	7.1	10.7	14.6	16.2
77.5°	5.5	8.7	12.3	13.4
80°	4.3	7.1	9.5	10.3
82.5°	3.6	5.1	7.1	7.5
85°	2.4	3.2	4.3	5.1
87.5°	1.2	1.6	2.0	2.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)