

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: P1327207

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327207
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: LDSQA3D09R70W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

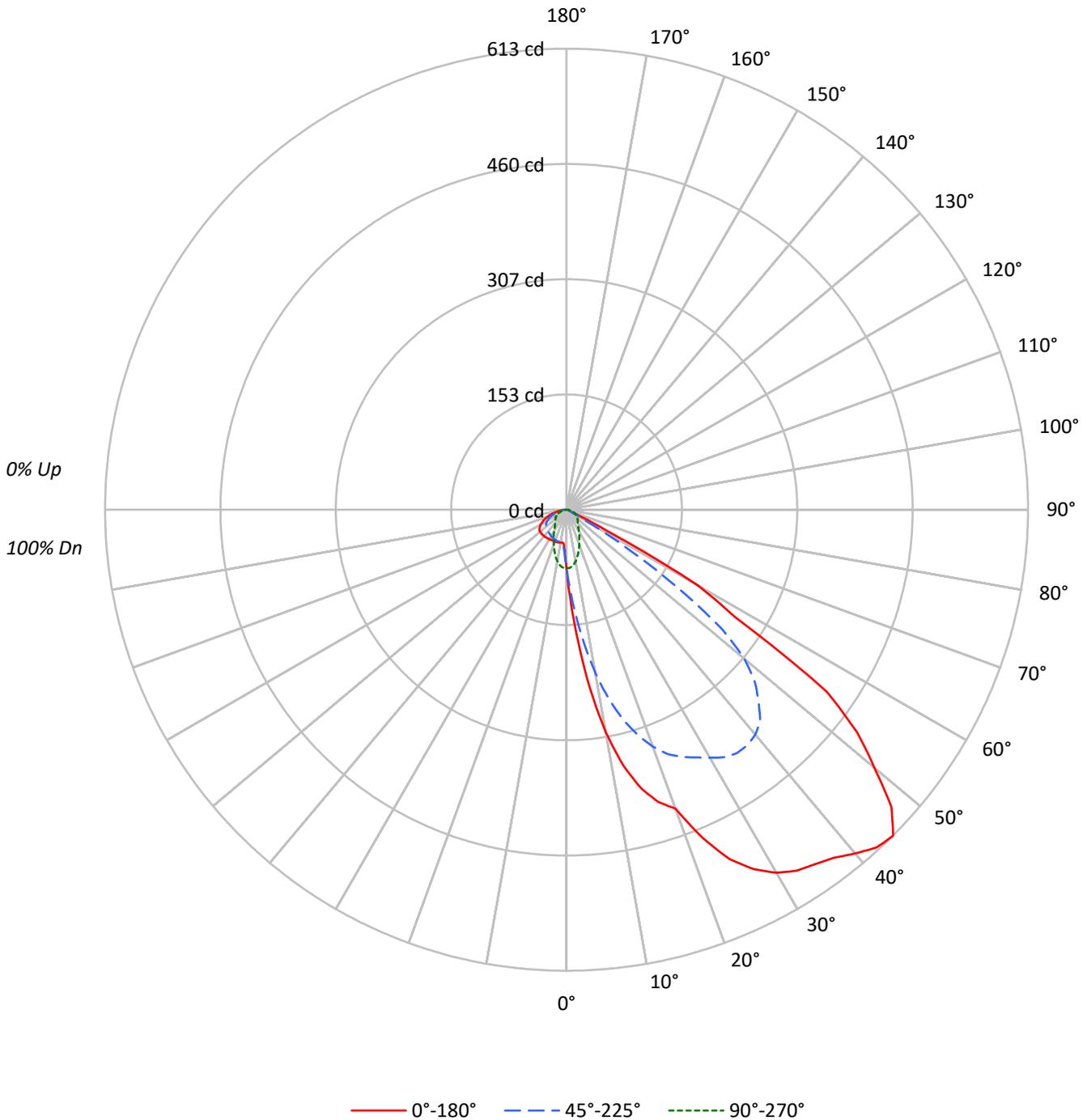
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 530.0 lumens
Efficiency: N/A
Efficacy: 58.9 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	0	
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°	13296	13296	13296	13296	13296
5°	30254	24221	13156	8316	7762
10°	52429	38473	12207	7590	7765
15°	68449	51385	10662	7738	8006
20°	77526	61434	9109	7844	8339
25°	97370	68923	7639	7943	8532
30°	110828	75708	6523	8094	9048
35°	120954	83047	5677	8221	9566
40°	134106	87725	5238	8566	10342
45°	149399	87828	5163	9012	11204
50°	143102	82603	5091	9485	12191
55°	126710	53507	5225	9999	13181
60°	69406	11470	5270	10196	13674
65°	4972	2812	5175	10147	13774
70°	2417	2669	4784	9567	13294
75°	2129	2795	4591	9116	12310
80°	2083	2579	4166	8430	11505
85°	2174	3162	4150	7311	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 149399 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.1	1.9
10°-20°	43.1	8.1
20°-30°	82.6	15.6
30°-40°	116.9	22.1
40°-50°	132.2	24.9
50°-60°	104.7	19.8
60°-70°	28.2	5.3
70°-80°	9.4	1.8
80°-90°	2.9	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°	135.8	25.6
0°-40°	252.6	47.7
0°-60°	489.5	92.4
0°-90°	530.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	530.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	77	77	77	77	77	
5°	175	140	76	48	45	21
15°	384	288	60	43	45	108
25°	512	363	40	42	45	235
35°	575	395	27	39	46	362
45°	613	361	21	37	46	459
55°	422	178	17	33	44	342
65°	12	7	13	25	34	44
75°	3	4	7	14	18	3
85°	1	2	2	4	5	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°	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2	77.2
2.5°	120.0	120.0	119.5	117.4	116.3	113.7	111.6	105.8	91.5	77.7	66.6
5°	175.0	177.7	174.0	173.4	170.3	165.5	162.3	140.1	105.8	76.1	57.1
7.5°	240.1	241.1	240.1	234.8	230.0	222.1	214.7	179.8	120.0	73.5	50.2
10°	299.8	298.2	295.1	291.4	284.5	276.0	263.3	220.0	133.8	69.8	46.0
12.5°	348.5	347.9	344.2	340.5	332.1	321.0	308.3	256.5	145.4	65.0	43.9
15°	383.9	383.9	380.2	376.0	368.0	359.0	344.8	288.2	154.9	59.8	41.8
17.5°	407.7	406.6	404.0	400.8	394.5	385.5	374.4	313.6	161.3	54.5	41.2
20°	423.0	422.5	420.4	415.6	410.3	403.5	393.4	335.2	163.9	49.7	40.7
22.5°	472.2	468.0	460.0	450.0	437.3	420.9	407.2	351.6	162.9	44.4	39.7
25°	512.4	510.8	502.3	490.2	473.3	452.1	429.4	362.7	157.6	40.2	38.6
27.5°	538.8	536.2	528.3	515.0	497.1	476.4	455.3	371.2	150.2	36.5	37.0
30°	557.3	555.7	547.8	533.0	514.5	491.8	470.1	380.7	140.1	32.8	35.4
32.5°	569.0	567.4	559.5	546.2	528.3	504.5	479.6	390.2	128.0	29.6	33.8
35°	575.3	573.7	564.7	553.1	536.2	512.9	486.5	395.0	113.2	27.0	32.3
37.5°	583.2	580.1	567.9	553.6	536.7	515.0	488.6	394.5	98.4	24.9	31.2
40°	596.5	588.0	570.6	551.5	534.1	512.4	487.0	390.2	82.0	23.3	30.1
42.5°	609.2	597.0	571.1	548.3	528.8	507.6	481.2	380.7	64.0	22.2	29.6
45°	613.4	595.4	563.7	540.9	522.4	500.8	473.3	360.6	43.4	21.2	28.6
47.5°	585.4	572.1	545.7	528.8	511.3	490.2	461.6	339.5	24.9	20.1	27.5
50°	534.1	525.6	510.8	500.2	490.7	475.9	447.9	308.3	14.8	19.0	26.4
52.5°	486.5	483.8	473.3	464.8	459.5	452.6	427.3	260.2	12.2	18.5	25.4
55°	422.0	413.5	410.9	407.7	418.8	418.3	383.9	178.2	11.6	17.4	24.3
57.5°	264.9	268.6	282.4	307.8	337.9	355.3	354.3	95.2	11.1	16.4	22.7
60°	201.5	200.9	205.2	215.7	238.0	262.8	286.1	33.3	10.6	15.3	21.7
62.5°	60.3	61.9	74.6	109.5	131.1	161.8	147.5	7.9	10.0	13.7	19.6
65°	12.2	12.7	12.7	14.3	17.4	26.4	32.3	6.9	9.5	12.7	18.0
67.5°	5.3	5.3	5.3	5.8	5.8	6.9	5.8	6.3	8.5	11.1	15.9
70°	4.8	4.8	4.8	4.8	4.8	4.8	5.3	5.3	7.4	9.5	13.7
72.5°	3.7	3.7	3.7	4.2	4.2	4.2	4.2	4.8	6.3	7.9	11.6
75°	3.2	3.2	3.2	3.2	3.7	3.7	3.7	4.2	5.3	6.9	9.5
77.5°	2.6	2.6	2.6	2.6	2.6	3.2	3.2	3.2	4.2	5.3	7.9
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	3.2	4.2	5.8
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.6	3.2	4.2
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	2.1	2.6
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.6
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°	77.2	77.2	77.2
2.5°	58.7	55.5	53.9
5°	48.1	45.5	44.9
7.5°	44.4	43.9	43.9
10°	43.4	43.9	44.4
12.5°	43.4	44.4	44.9
15°	43.4	44.4	44.9
17.5°	43.4	44.4	44.9
20°	42.8	44.4	45.5
22.5°	42.3	44.4	44.9
25°	41.8	44.4	44.9
27.5°	41.2	43.9	44.9
30°	40.7	43.9	45.5
32.5°	39.7	43.9	45.5
35°	39.1	43.9	45.5
37.5°	38.6	43.9	46.0
40°	38.1	43.9	46.0
42.5°	37.5	43.9	46.0
45°	37.0	43.4	46.0
47.5°	36.0	43.4	46.0
50°	35.4	42.8	45.5
52.5°	34.4	42.3	45.5
55°	33.3	41.2	43.9
57.5°	31.7	39.7	41.8
60°	29.6	37.5	39.7
62.5°	27.0	34.9	36.5
65°	24.9	31.7	33.8
67.5°	21.7	28.0	30.1
70°	19.0	24.3	26.4
72.5°	16.4	20.6	22.7
75°	13.7	16.9	18.5
77.5°	10.6	13.7	14.8
80°	8.5	10.6	11.6
82.5°	5.8	7.4	7.9
85°	3.7	4.8	5.3
87.5°	1.6	2.1	2.1
90°	0.0	0.0	0.0

(END OF REPORT)