

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: P1325602

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325602
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: LDSQA3D05R70W2N902750DE010 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

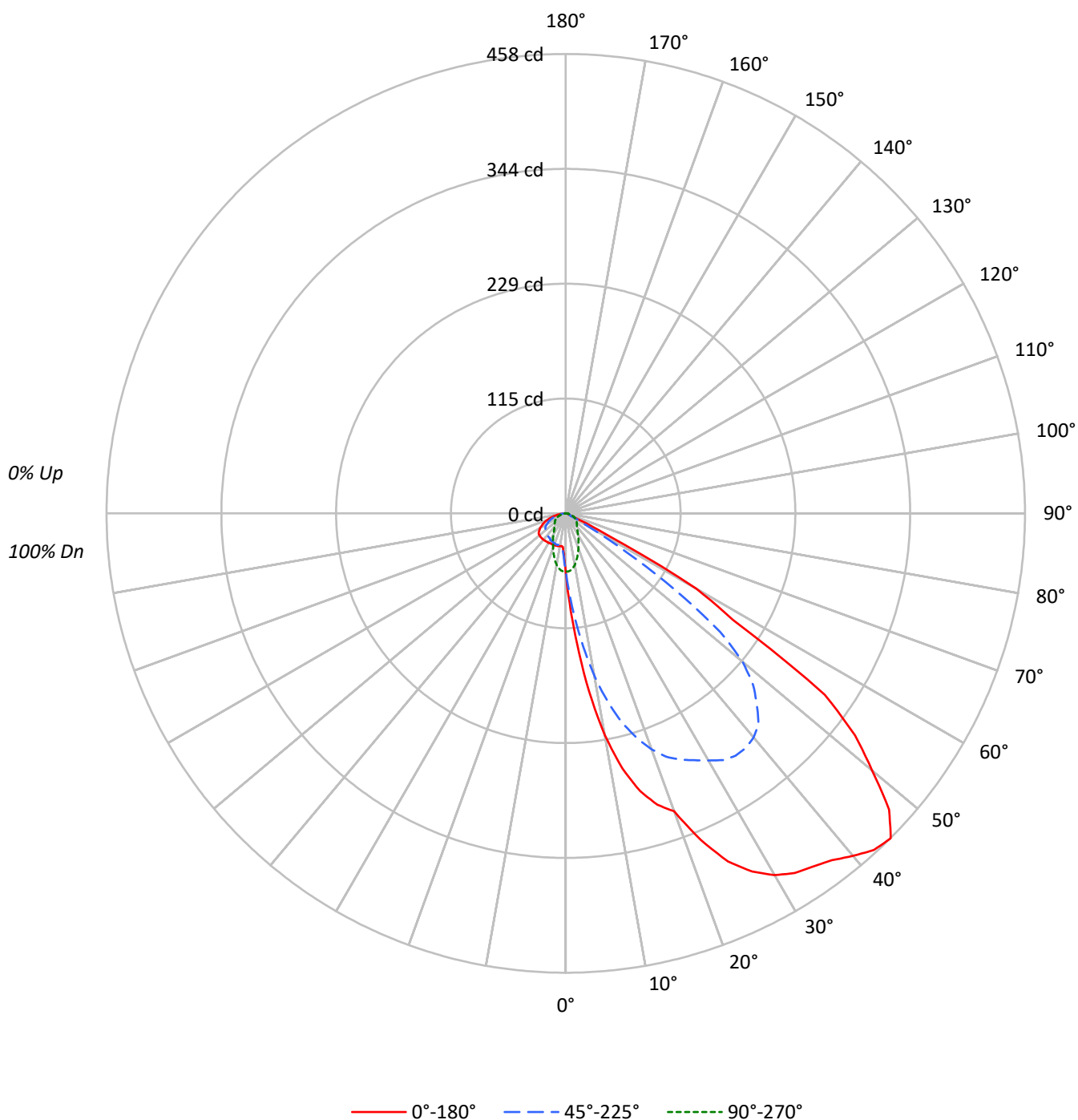
Lumens per Lamp: N/A
Luminaire Lumens: 396.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
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°	9937	9937	9937	9937	9937
5°	22613	18101	9837	6224	5809
10°	39173	28750	9129	5666	5806
15°	51136	38388	7952	5777	5991
20°	57933	45911	6800	5865	6231
25°	72742	51497	5701	5929	6385
30°	82808	56577	4872	6046	6761
35°	90384	62043	4226	6139	7148
40°	100203	65558	3912	6385	7734
45°	111623	65639	3848	6747	8378
50°	106904	61704	3805	7100	9110
55°	94672	39965	3903	7476	9849
60°	51839	8577	3961	7612	10196
65°	3708	2078	3871	7580	10310
70°	1813	2014	3575	7150	9970
75°	1597	2129	3394	6854	9183
80°	1587	1984	3174	6248	8629
85°	1581	2371	3162	5533	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 111623 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	1.9
10°-20°	32.2	8.1
20°-30°	61.7	15.6
30°-40°	87.3	22.0
40°-50°	98.8	24.9
50°-60°	78.2	19.8
60°-70°	21.1	5.3
70°-80°	7.0	1.8
80°-90°	2.2	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°	101.5	25.6
0°-40°	188.8	47.7
0°-60°	365.8	92.4
0°-90°	396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	396.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	58	58	58	58	58	
5°	131	105	57	36	34	15
15°	287	215	45	32	34	81
25°	383	271	30	31	34	175
35°	430	295	20	29	34	271
45°	458	270	16	28	34	343
55°	315	133	13	25	33	256
65°	9	5	10	19	25	33
75°	2	3	5	10	14	3
85°	1	1	2	3	4	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°	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7	57.7
2.5°	89.7	89.7	89.3	87.7	86.9	84.9	83.4	79.0	68.4	58.1	49.8
5°	130.8	132.8	130.0	129.6	127.2	123.7	121.3	104.7	79.0	56.9	42.7
7.5°	179.4	180.2	179.4	175.4	171.9	165.9	160.4	134.3	89.7	54.9	37.5
10°	224.0	222.8	220.5	217.7	212.6	206.2	196.8	164.4	100.0	52.2	34.4
12.5°	260.4	260.0	257.2	254.4	248.1	239.8	230.3	191.6	108.6	48.6	32.8
15°	286.8	286.8	284.1	280.9	275.0	268.3	257.6	215.3	115.8	44.6	31.2
17.5°	304.6	303.8	301.8	299.5	294.7	288.0	279.7	234.3	120.5	40.7	30.8
20°	316.1	315.7	314.1	310.5	306.6	301.5	293.9	250.5	122.5	37.1	30.4
22.5°	352.8	349.7	343.7	336.2	326.7	314.5	304.2	262.7	121.7	33.2	29.6
25°	382.8	381.7	375.3	366.2	353.6	337.8	320.8	271.0	117.7	30.0	28.8
27.5°	402.6	400.6	394.7	384.8	371.4	356.0	340.2	277.4	112.2	27.3	27.7
30°	416.4	415.2	409.3	398.3	384.4	367.4	351.2	284.5	104.7	24.5	26.5
32.5°	425.1	423.9	418.0	408.1	394.7	376.9	358.3	291.6	95.6	22.1	25.3
35°	429.9	428.7	422.0	413.3	400.6	383.2	363.5	295.1	84.5	20.1	24.1
37.5°	435.8	433.4	424.3	413.7	401.0	384.8	365.1	294.7	73.5	18.6	23.3
40°	445.7	439.3	426.3	412.1	399.0	382.8	363.9	291.6	61.2	17.4	22.5
42.5°	455.1	446.1	426.7	409.7	395.1	379.3	359.5	284.5	47.8	16.6	22.1
45°	458.3	444.9	421.2	404.2	390.3	374.2	353.6	269.5	32.4	15.8	21.3
47.5°	437.4	427.5	407.7	395.1	382.1	366.2	344.9	253.6	18.6	15.0	20.5
50°	399.0	392.7	381.7	373.8	366.6	355.6	334.6	230.3	11.1	14.2	19.8
52.5°	363.5	361.5	353.6	347.3	343.3	338.2	319.2	194.4	9.1	13.8	19.0
55°	315.3	309.0	307.0	304.6	312.9	312.5	286.8	133.1	8.7	13.0	18.2
57.5°	197.9	200.7	211.0	229.9	252.5	265.5	264.7	71.1	8.3	12.2	17.0
60°	150.5	150.1	153.3	161.2	177.8	196.4	213.7	24.9	7.9	11.5	16.2
62.5°	45.0	46.2	55.7	81.8	98.0	120.9	110.2	5.9	7.5	10.3	14.6
65°	9.1	9.5	9.5	10.7	13.0	19.8	24.1	5.1	7.1	9.5	13.4
67.5°	4.0	4.0	4.0	4.3	4.3	5.1	4.3	4.7	6.3	8.3	11.9
70°	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.0	5.5	7.1	10.3
72.5°	2.8	2.8	2.8	3.2	3.2	3.2	3.2	3.6	4.7	5.9	8.7
75°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	3.2	4.0	5.1	7.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4	3.2	4.0	5.9
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.4	3.2	4.3
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	2.4	3.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	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):

	135°	157.5°	180°
0°	57.7	57.7	57.7
2.5°	43.9	41.5	40.3
5°	36.0	34.0	33.6
7.5°	33.2	32.8	32.8
10°	32.4	32.8	33.2
12.5°	32.4	33.2	33.6
15°	32.4	33.2	33.6
17.5°	32.4	33.2	33.6
20°	32.0	33.2	34.0
22.5°	31.6	33.2	33.6
25°	31.2	33.2	33.6
27.5°	30.8	32.8	33.6
30°	30.4	32.8	34.0
32.5°	29.6	32.8	34.0
35°	29.2	32.8	34.0
37.5°	28.8	32.8	34.4
40°	28.4	32.8	34.4
42.5°	28.1	32.8	34.4
45°	27.7	32.4	34.4
47.5°	26.9	32.4	34.4
50°	26.5	32.0	34.0
52.5°	25.7	31.6	34.0
55°	24.9	30.8	32.8
57.5°	23.7	29.6	31.2
60°	22.1	28.1	29.6
62.5°	20.1	26.1	27.3
65°	18.6	23.7	25.3
67.5°	16.2	20.9	22.5
70°	14.2	18.2	19.8
72.5°	12.2	15.4	17.0
75°	10.3	12.6	13.8
77.5°	7.9	10.3	11.1
80°	6.3	7.9	8.7
82.5°	4.3	5.5	5.9
85°	2.8	3.6	4.0
87.5°	1.2	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)