

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: P1319896

Luminaire Tested: LDSQA3D05R709840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319896
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: LDSQA3D05R709840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

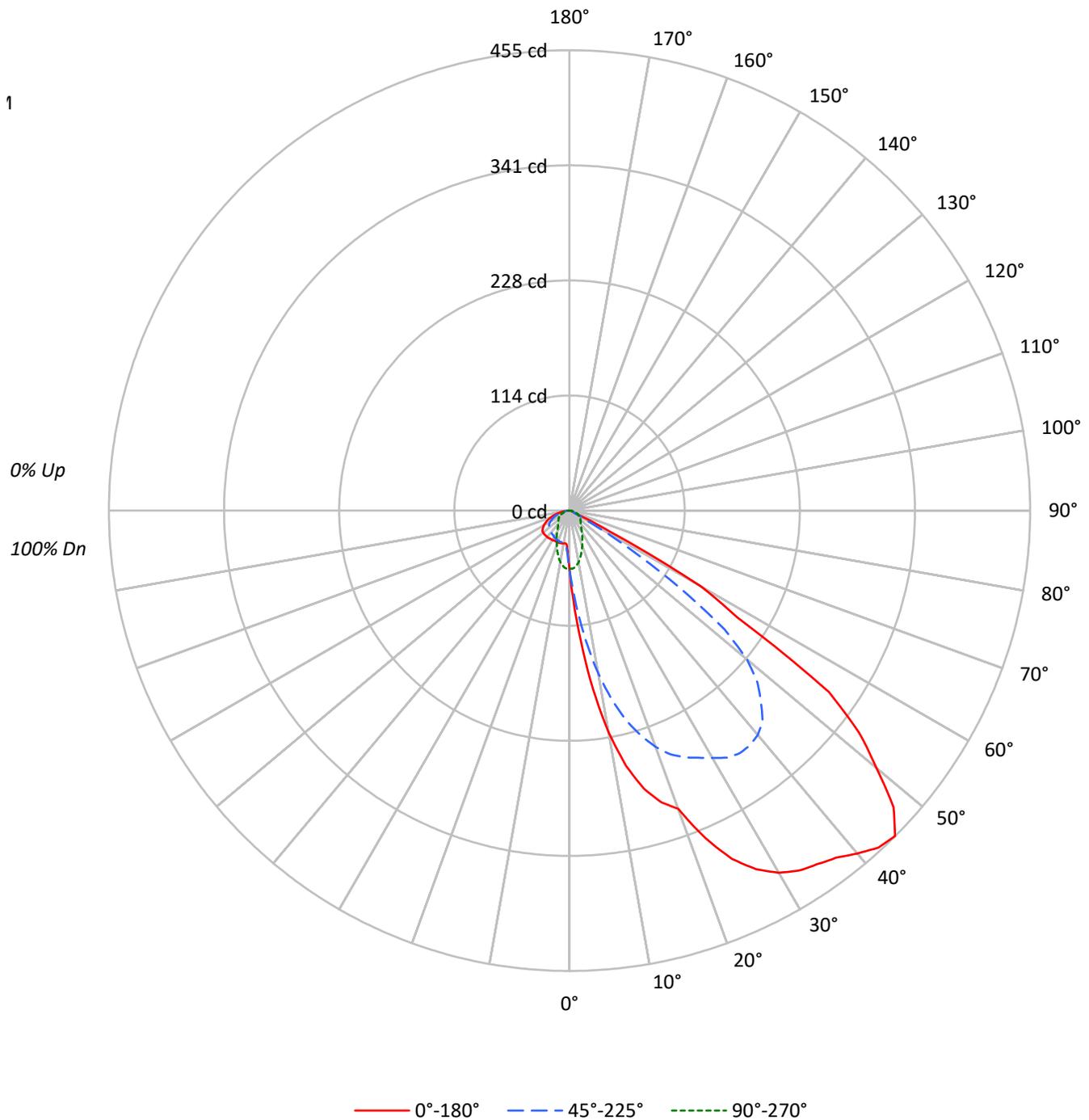
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 393.0 lumens
Efficiency: N/A
Efficacy: 54.6 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): 7.2
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	102	100
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	89	89	89	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	77	77	77	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	66	66	66	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	57	57	57	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	49	49	49	47
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	43	43	43	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	33	33	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	29	29	29	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	26	26	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9851	9851	9851	9851	9851
5°	22440	17962	9768	6172	5757
10°	38876	28523	9059	5631	5754
15°	50761	38102	7899	5741	5937
20°	57494	45562	6763	5828	6176
25°	72191	51117	5663	5891	6328
30°	82191	56140	4832	6006	6702
35°	89691	61581	4205	6097	7085
40°	99438	65063	3889	6340	7666
45°	110771	65128	3824	6674	8305
50°	106101	61249	3778	7047	9029
55°	93952	39664	3873	7416	9758
60°	51460	8508	3927	7578	10127
65°	3668	2078	3831	7498	10229
70°	1762	1964	3575	7100	9869
75°	1597	2063	3394	6787	9116
80°	1587	1984	3075	6248	8529
85°	1581	2371	3162	5335	7707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 110771 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	1.9
10°-20°	31.9	8.1
20°-30°	61.3	15.6
30°-40°	86.6	22.0
40°-50°	98.0	24.9
50°-60°	77.6	19.8
60°-70°	20.9	5.3
70°-80°	6.9	1.8
80°-90°	2.1	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°	100.7	25.6
0°-40°	187.3	47.7
0°-60°	363.0	92.4
0°-90°	393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	57	57	57	57	57	
5°	130	104	56	36	33	15
15°	285	214	44	32	33	80
25°	380	269	30	31	33	174
35°	427	293	20	29	34	269
45°	455	267	16	27	34	340
55°	313	132	13	25	32	254
65°	9	5	9	18	25	32
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°	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2	57.2
2.5°	89.0	89.0	88.6	87.0	86.3	84.3	82.7	78.4	67.8	57.6	49.4
5°	129.8	131.7	129.0	128.6	126.3	122.7	120.4	103.9	78.4	56.5	42.3
7.5°	178.0	178.8	178.0	174.1	170.6	164.7	159.2	133.3	89.0	54.5	37.2
10°	222.3	221.1	218.8	216.0	210.9	204.7	195.3	163.1	99.2	51.8	34.1
12.5°	258.4	258.0	255.3	252.5	246.2	238.0	228.6	190.2	107.8	48.2	32.5
15°	284.7	284.7	281.9	278.8	272.9	266.2	255.6	213.7	114.9	44.3	31.0
17.5°	302.3	301.5	299.6	297.2	292.5	285.8	277.6	232.5	119.6	40.4	30.6
20°	313.7	313.3	311.7	308.2	304.3	299.2	291.7	248.6	121.5	36.9	30.2
22.5°	350.1	347.0	341.1	333.7	324.3	312.1	301.9	260.7	120.8	32.9	29.4
25°	379.9	378.8	372.5	363.5	350.9	335.2	318.4	269.0	116.8	29.8	28.6
27.5°	399.5	397.6	391.7	381.9	368.6	353.3	337.6	275.3	111.4	27.1	27.4
30°	413.3	412.1	406.2	395.2	381.5	364.6	348.6	282.3	103.9	24.3	26.3
32.5°	421.9	420.7	414.8	405.0	391.7	374.1	355.6	289.4	94.9	22.0	25.1
35°	426.6	425.4	418.8	410.1	397.6	380.3	360.7	292.9	83.9	20.0	23.9
37.5°	432.5	430.1	421.1	410.5	398.0	381.9	362.3	292.5	72.9	18.4	23.1
40°	442.3	436.0	423.1	409.0	396.0	379.9	361.1	289.4	60.8	17.3	22.3
42.5°	451.7	442.7	423.5	406.6	392.1	376.4	356.8	282.3	47.4	16.5	22.0
45°	454.8	441.5	418.0	401.1	387.4	371.3	350.9	267.4	32.2	15.7	21.2
47.5°	434.1	424.2	404.6	392.1	379.2	363.5	342.3	251.7	18.4	14.9	20.4
50°	396.0	389.7	378.8	370.9	363.9	352.9	332.1	228.6	11.0	14.1	19.6
52.5°	360.7	358.8	350.9	344.7	340.7	335.6	316.8	192.9	9.0	13.7	18.8
55°	312.9	306.6	304.7	302.3	310.5	310.1	284.7	132.1	8.6	12.9	18.0
57.5°	196.4	199.2	209.4	228.2	250.5	263.5	262.7	70.6	8.2	12.2	16.9
60°	149.4	149.0	152.1	160.0	176.4	194.9	212.1	24.7	7.8	11.4	16.1
62.5°	44.7	45.9	55.3	81.2	97.2	120.0	109.4	5.9	7.4	10.2	14.5
65°	9.0	9.4	9.4	10.6	12.9	19.6	23.9	5.1	7.1	9.4	13.3
67.5°	3.9	3.9	3.9	4.3	4.3	5.1	4.3	4.7	6.3	8.2	11.8
70°	3.5	3.5	3.5	3.5	3.5	3.5	3.9	3.9	5.5	7.1	10.2
72.5°	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.5	4.7	5.9	8.6
75°	2.4	2.4	2.4	2.4	2.7	2.7	2.7	3.1	3.9	5.1	7.1
77.5°	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4	3.1	3.9	5.9
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.4	3.1	4.3
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	2.4	3.1
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°	57.2	57.2	57.2
2.5°	43.5	41.2	40.0
5°	35.7	33.7	33.3
7.5°	32.9	32.5	32.5
10°	32.2	32.5	32.9
12.5°	32.2	32.9	33.3
15°	32.2	32.9	33.3
17.5°	32.2	32.9	33.3
20°	31.8	32.9	33.7
22.5°	31.4	32.9	33.3
25°	31.0	32.9	33.3
27.5°	30.6	32.5	33.3
30°	30.2	32.5	33.7
32.5°	29.4	32.5	33.7
35°	29.0	32.5	33.7
37.5°	28.6	32.5	34.1
40°	28.2	32.5	34.1
42.5°	27.8	32.5	34.1
45°	27.4	32.2	34.1
47.5°	26.7	32.2	34.1
50°	26.3	31.8	33.7
52.5°	25.5	31.4	33.7
55°	24.7	30.6	32.5
57.5°	23.5	29.4	31.0
60°	22.0	27.8	29.4
62.5°	20.0	25.9	27.1
65°	18.4	23.5	25.1
67.5°	16.1	20.8	22.3
70°	14.1	18.0	19.6
72.5°	12.2	15.3	16.9
75°	10.2	12.5	13.7
77.5°	7.8	10.2	11.0
80°	6.3	7.8	8.6
82.5°	4.3	5.5	5.9
85°	2.7	3.5	3.9
87.5°	1.2	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)