

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: P1319893

Luminaire Tested: LDSQA3D05R709840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319893
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: LDSQA3D05R709840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

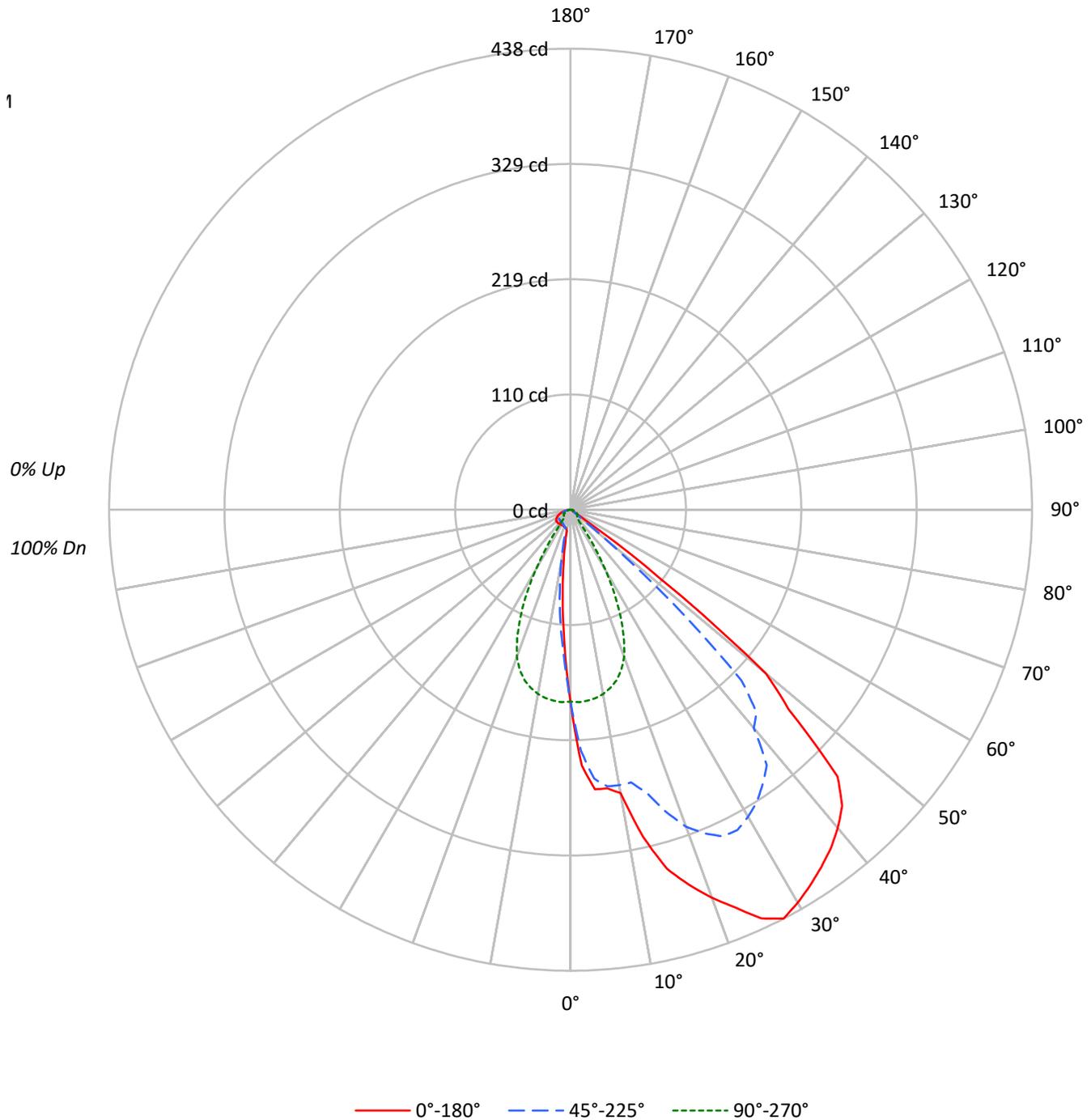
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 346.0 lumens
Efficiency: N/A
Efficacy: 48.1 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
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 (A_{in}): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31379	31379	31379	31379	31379
5°	46090	44327	31499	18809	14729
10°	47795	46483	31094	8989	3637
15°	62939	49567	29954	3227	3156
20°	71881	58721	27271	3097	3171
25°	81388	65046	21416	2983	3135
30°	85731	66998	13264	2963	3361
35°	87168	66858	4373	3049	3553
40°	88714	60814	2113	3260	3889
45°	87292	55848	2192	3434	4214
50°	64893	10315	2197	3778	4635
55°	5195	1411	2372	3993	4954
60°	1068	1481	2308	4064	5132
65°	1100	1426	2241	3994	5298
70°	1007	1360	2165	3777	5136
75°	799	1331	1797	3660	4991
80°	793	1190	1984	3471	4661
85°	790	1581	2371	3162	3952

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 88363 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.6	4.8
10°-20°	46.6	13.5
20°-30°	78.3	22.6
30°-40°	94.1	27.2
40°-50°	74.6	21.6
50°-60°	23.9	6.9
60°-70°	6.7	1.9
70°-80°	4.0	1.2
80°-90°	1.3	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°	141.5	40.9
0°-40°	235.6	68.1
0°-60°	334.1	96.6
0°-90°	346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	346.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	182	182	182	182	182	
5°	267	256	182	109	85	25
15°	353	278	168	18	18	99
25°	428	342	113	16	16	196
35°	415	318	21	14	17	260
45°	358	229	9	14	17	257
55°	17	5	8	13	16	54
65°	3	4	6	10	13	3
75°	1	2	3	6	8	1
85°	0	1	1	2	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°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2
2.5°	243.0	244.6	244.6	242.6	243.4	240.3	237.9	234.4	233.6	229.3	223.8
5°	266.6	265.8	265.8	264.2	265.0	263.8	262.7	261.9	259.5	256.4	253.2
7.5°	267.0	267.8	268.1	267.8	269.3	268.1	268.1	268.1	266.6	265.0	261.9
10°	273.3	272.1	270.9	268.1	266.6	265.4	265.4	265.8	266.6	265.8	263.8
12.5°	318.4	314.1	312.1	305.4	300.3	291.7	281.9	274.4	267.8	265.4	263.8
15°	353.0	352.2	348.2	342.0	335.7	325.5	314.1	302.7	290.5	278.0	268.9
17.5°	373.4	371.8	367.9	361.2	353.7	344.3	335.3	326.6	314.9	300.7	286.2
20°	392.2	388.7	383.6	375.7	368.3	359.2	349.4	341.2	331.4	320.4	303.5
22.5°	409.1	406.0	397.7	387.1	379.6	371.0	362.4	354.5	345.5	332.9	317.6
25°	428.3	421.3	407.9	394.2	385.1	378.1	371.8	365.5	356.1	342.3	324.3
27.5°	437.8	427.9	413.4	399.7	391.0	383.6	376.9	370.6	360.0	343.1	322.3
30°	431.1	425.6	415.4	404.8	397.7	390.6	382.8	373.4	356.5	336.9	317.6
32.5°	423.2	420.5	415.8	409.5	405.2	398.1	387.1	371.8	348.2	329.0	308.2
35°	414.6	413.4	411.8	409.1	406.3	399.7	385.9	363.6	340.0	318.0	298.0
37.5°	405.6	404.4	405.6	405.2	402.8	394.2	373.4	352.6	328.2	305.8	267.0
40°	394.6	393.8	395.7	397.7	395.0	383.6	361.2	336.1	314.5	270.5	257.2
42.5°	381.6	381.2	384.8	386.3	382.4	365.5	339.2	320.8	275.2	261.1	229.7
45°	358.4	359.2	360.8	362.8	360.4	342.0	318.0	284.2	264.2	229.3	130.7
47.5°	280.7	281.5	289.3	305.8	317.2	310.9	290.5	265.4	236.3	131.1	41.2
50°	242.2	241.5	241.8	245.8	254.8	263.4	257.2	243.4	140.9	38.5	5.1
52.5°	106.4	118.2	130.7	166.1	188.8	212.8	217.5	152.3	45.9	5.1	5.1
55°	17.3	18.1	22.8	33.4	60.1	90.7	109.9	51.0	4.7	4.7	4.7
57.5°	3.5	3.5	3.5	3.9	5.9	12.6	14.5	4.3	4.3	4.3	4.7
60°	3.1	3.1	3.1	3.1	3.5	3.5	3.5	3.9	3.9	4.3	4.3
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.5	3.5	3.9	3.9	4.3
65°	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.1	3.5	3.5	3.9
67.5°	2.4	2.4	2.4	2.4	2.7	2.7	2.7	3.1	3.1	3.1	3.5
70°	2.0	2.0	2.0	2.0	2.4	2.4	2.4	2.4	2.7	2.7	2.7
72.5°	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.0	2.4	2.4	2.4
75°	1.2	1.2	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2
82.5°	0.4	0.4	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	0.8
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°	182.2	182.2	182.2	182.2	182.2	182.2	182.2	182.2
2.5°	220.3	214.8	207.3	183.0	160.6	140.2	130.0	128.8
5°	248.1	243.0	230.5	182.2	139.4	108.8	90.3	85.2
7.5°	258.7	254.4	243.4	180.6	119.4	78.1	57.3	49.5
10°	261.5	258.7	249.3	177.8	98.5	51.4	27.1	20.8
12.5°	262.7	260.7	251.7	173.5	77.7	26.7	18.5	18.5
15°	264.6	262.7	254.0	168.0	57.3	18.1	17.7	17.7
17.5°	273.3	267.0	257.2	159.8	37.7	17.3	17.3	17.3
20°	287.4	273.6	258.7	148.8	23.6	16.9	16.9	17.3
22.5°	299.2	280.7	258.3	132.3	17.3	16.1	16.5	16.9
25°	304.3	283.9	254.8	112.7	14.9	15.7	16.5	16.5
27.5°	303.5	285.0	251.7	90.3	14.1	15.3	16.1	16.9
30°	299.2	281.9	244.6	66.7	13.3	14.9	16.1	16.9
32.5°	291.7	269.7	230.5	43.2	13.0	14.9	16.1	16.9
35°	267.4	250.1	210.0	20.8	12.6	14.5	16.5	16.9
37.5°	253.2	229.3	160.2	10.2	12.2	14.5	16.5	16.9
40°	230.5	171.2	72.2	9.4	12.2	14.5	16.5	17.3
42.5°	144.9	70.3	11.8	9.0	11.8	14.5	16.5	17.3
45°	53.0	9.4	6.3	9.0	11.8	14.1	16.5	17.3
47.5°	5.5	5.5	5.9	8.6	11.4	14.1	16.5	17.3
50°	5.1	5.5	5.9	8.2	11.0	14.1	16.1	17.3
52.5°	5.1	5.5	5.9	8.2	10.6	13.7	16.1	17.3
55°	5.1	5.5	5.5	7.9	10.2	13.3	15.7	16.5
57.5°	4.7	5.1	5.5	7.5	9.8	12.6	15.3	16.1
60°	4.7	5.1	5.5	6.7	9.4	11.8	14.5	14.9
62.5°	4.3	4.7	5.1	6.3	8.6	11.0	13.3	14.1
65°	4.3	4.3	4.7	5.5	7.9	9.8	12.2	13.0
67.5°	3.5	3.9	3.9	4.7	6.7	8.6	11.0	11.8
70°	3.1	3.1	3.5	4.3	5.9	7.5	9.4	10.2
72.5°	2.7	2.7	2.7	3.5	5.1	6.7	8.2	9.0
75°	2.4	2.4	2.4	2.7	4.3	5.5	7.1	7.5
77.5°	2.0	2.0	2.0	2.4	3.5	4.7	5.5	6.3
80°	1.6	1.6	1.6	2.0	2.7	3.5	4.3	4.7
82.5°	1.2	1.2	1.2	1.6	2.0	2.4	3.1	3.1
85°	0.8	0.8	0.8	1.2	1.2	1.6	2.0	2.0
87.5°	0.4	0.4	0.4	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)