

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: P1319890

Luminaire Tested: LDSQA3D05R659840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319890
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R659840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

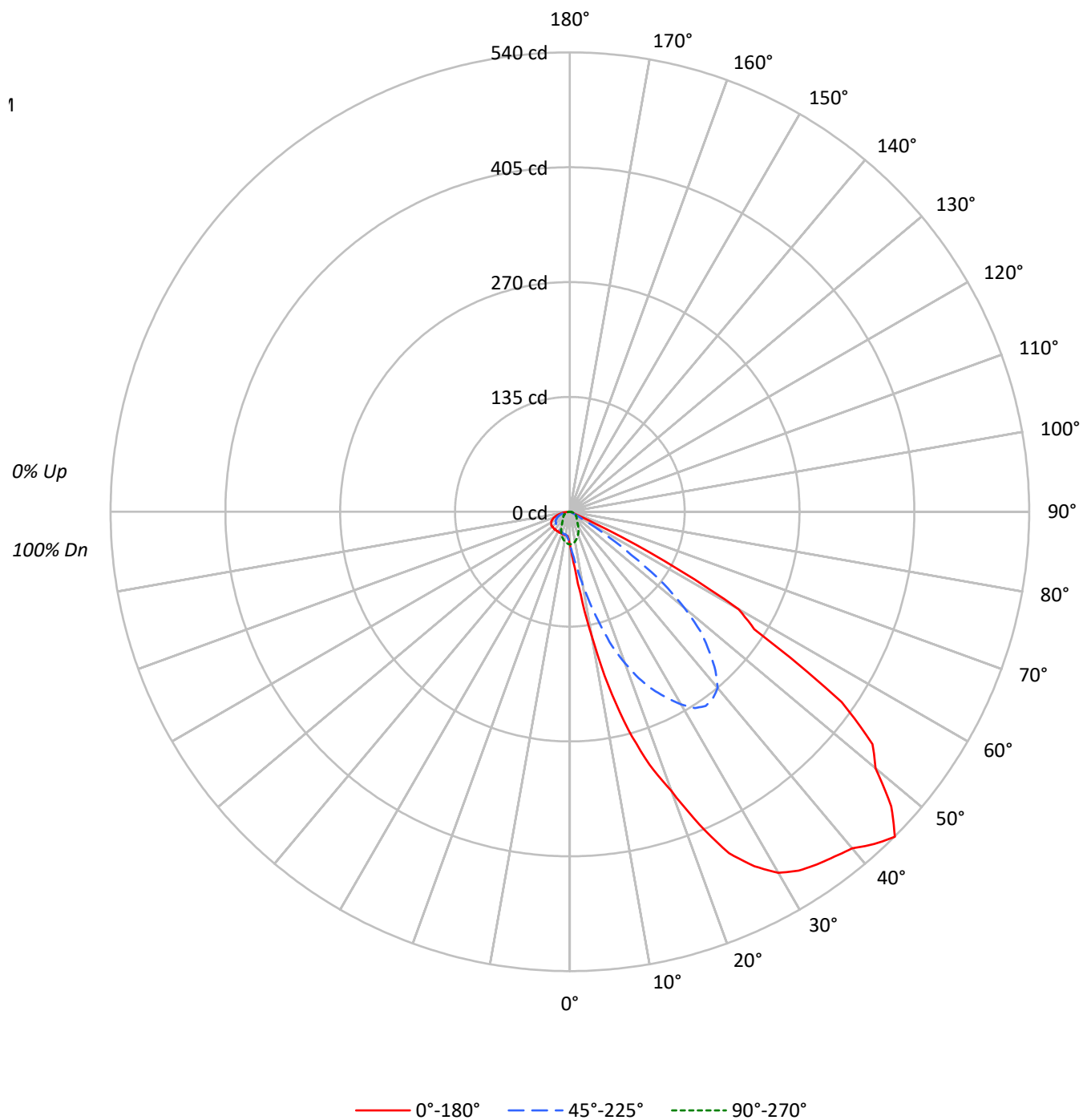
Lumens per Lamp: N/A
Luminaire Lumens: 392.0 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	64	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6562	6562	6562	6562	6562
5°	11479	9370	6448	5238	5031
10°	25987	15127	6191	4809	4879
15°	47231	24320	5741	4832	4975
20°	64036	34712	5187	4820	5040
25°	84182	43839	4561	4713	5150
30°	97464	51983	3918	4693	5389
35°	106426	58595	3301	4794	5698
40°	116120	60792	2923	5036	6093
45°	131620	56384	2777	5358	6600
50°	125740	47075	2733	5680	7261
55°	117192	26423	2822	6125	8017
60°	78912	5683	2859	6510	8680
65°	12185	1426	2730	6724	9454
70°	1410	1410	2568	6949	10071
75°	1331	1331	2329	6787	10181
80°	1190	1587	2380	6248	10116
85°	790	1581	2371	6126	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 131620 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.6	1.2
10°-20°	24.9	6.4
20°-30°	58.6	14.9
30°-40°	88.5	22.6
40°-50°	101.7	25.9
50°-60°	80.7	20.6
60°-70°	24.2	6.2
70°-80°	6.6	1.7
80°-90°	2.2	0.6
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°	88.1	22.5
0°-40°	176.6	45.0
0°-60°	359.0	91.6
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	38	38	38	38	38	
5°	66	54	37	30	29	9
15°	265	136	32	27	28	76
25°	443	231	24	25	27	202
35°	506	279	16	23	27	318
45°	540	232	11	22	27	401
55°	390	88	9	20	27	322
65°	30	4	7	16	23	67
75°	2	2	4	10	15	2
85°	0	1	1	3	5	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
2.5°	48.3	48.7	48.3	48.3	48.0	47.6	44.8	41.7	38.1	35.4	33.4
5°	66.4	66.8	65.6	65.6	64.9	63.7	54.2	45.2	37.3	33.0	30.3
7.5°	98.3	99.8	97.9	95.5	91.2	90.4	67.6	48.7	36.6	30.7	28.3
10°	148.6	147.4	145.4	140.7	133.2	129.7	86.5	52.3	35.4	29.1	27.5
12.5°	209.5	206.3	204.0	195.3	185.1	179.2	110.1	55.4	33.8	27.5	27.1
15°	264.9	262.6	257.1	248.8	236.2	231.5	136.4	57.4	32.2	26.3	27.1
17.5°	311.7	309.3	306.2	297.9	285.0	277.9	165.9	58.6	30.3	25.5	26.7
20°	349.4	347.8	343.5	336.8	323.9	317.2	189.4	58.6	28.3	24.8	26.3
22.5°	398.2	394.6	389.1	379.3	363.2	353.0	211.9	57.4	26.3	24.0	25.5
25°	443.0	440.6	433.5	421.7	404.4	394.2	230.7	55.0	24.0	22.8	24.8
27.5°	469.7	468.1	461.4	449.3	430.0	422.1	246.4	51.5	21.6	21.6	24.4
30°	490.1	487.0	480.3	468.5	448.9	439.4	261.4	47.2	19.7	20.4	23.6
32.5°	500.3	499.2	493.3	483.1	463.8	453.2	273.6	41.7	17.3	19.7	23.2
35°	506.2	505.1	500.3	490.5	472.4	462.2	278.7	36.6	15.7	18.9	22.8
37.5°	511.0	509.8	503.9	494.1	476.0	465.4	276.3	31.1	14.1	18.1	22.4
40°	516.5	512.1	503.1	493.3	476.8	466.5	270.4	25.9	13.0	17.7	22.4
42.5°	529.8	514.9	500.7	491.7	476.0	464.2	253.5	20.4	11.8	16.9	22.0
45°	540.4	514.1	496.0	488.9	472.8	459.5	231.5	14.9	11.4	16.5	22.0
47.5°	512.5	496.4	488.2	484.2	466.9	452.4	208.7	10.2	11.0	16.1	21.6
50°	469.3	467.3	464.2	464.6	448.9	437.1	175.7	7.1	10.2	15.7	21.2
52.5°	448.5	446.1	440.6	436.7	421.0	410.7	139.1	5.5	9.8	15.3	20.8
55°	390.3	391.9	386.0	388.3	383.6	378.5	88.0	5.1	9.4	14.5	20.4
57.5°	257.1	264.9	278.7	295.2	310.1	320.3	47.6	5.1	8.6	14.1	19.7
60°	229.1	227.2	226.8	229.9	236.6	242.1	16.5	4.7	8.3	13.0	18.9
62.5°	125.4	124.6	136.4	156.4	168.2	169.4	4.7	4.7	7.5	12.2	17.7
65°	29.9	31.1	34.6	43.2	51.1	56.2	3.5	4.3	6.7	11.4	16.5
67.5°	4.7	5.1	5.1	6.3	7.1	7.1	3.1	3.9	5.9	10.2	15.3
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	5.1	9.0	13.8
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.8	3.1	4.3	7.9	11.8
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.8	3.5	6.3	10.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.4	3.1	5.1	8.3
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	2.4	3.9	6.3
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6	2.0	3.1	4.7
85°	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	1.2	2.0	3.1
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	1.2	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):

	157.5°	180°
0°	38.1	38.1
2.5°	32.2	31.8
5°	29.1	29.1
7.5°	27.9	27.9
10°	27.5	27.9
12.5°	27.5	27.9
15°	27.5	27.9
17.5°	27.5	27.9
20°	27.1	27.5
22.5°	26.7	27.1
25°	26.3	27.1
27.5°	25.9	27.1
30°	25.9	27.1
32.5°	25.9	27.1
35°	25.5	27.1
37.5°	25.5	27.1
40°	25.5	27.1
42.5°	25.5	27.1
45°	25.5	27.1
47.5°	25.5	27.1
50°	25.5	27.1
52.5°	25.2	27.1
55°	25.2	26.7
57.5°	24.4	25.9
60°	23.6	25.2
62.5°	22.8	24.4
65°	21.6	23.2
67.5°	20.4	21.6
70°	18.5	20.0
72.5°	16.5	17.7
75°	14.1	15.3
77.5°	11.8	13.0
80°	9.4	10.2
82.5°	6.7	7.5
85°	4.3	4.7
87.5°	2.0	2.0
90°	0.0	0.0

(END OF REPORT)