

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: P1319153

Luminaire Tested: LDSQA3D09R609835DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R609835DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

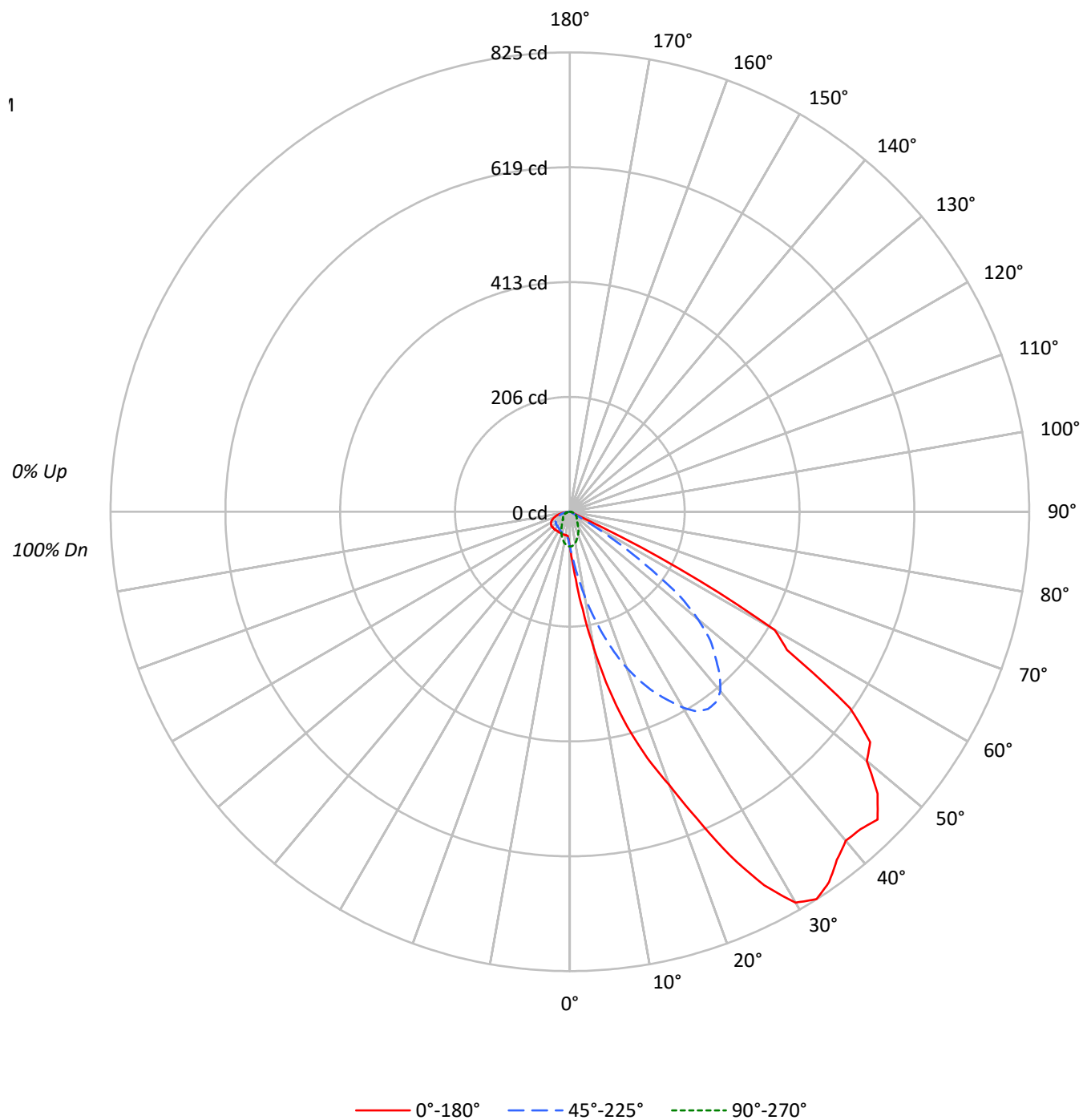
Lumens per Lamp: N/A
Luminaire Lumens: 628.0 lumens
Efficiency: N/A
Efficacy: 57.1 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
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	93	91	92	90	89	87		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10712	10712	10712	10712	10712
5°	21126	16476	10563	7987	7607
10°	43632	26861	9881	7292	7380
15°	71355	40313	8861	7328	7524
20°	95725	54616	7954	7331	7643
25°	129522	67802	6936	7259	7924
30°	161200	80720	5787	7259	8293
35°	170677	90973	4920	7443	8641
40°	173382	94582	4496	7711	9375
45°	190342	90093	4311	8208	10156
50°	186587	80754	4287	8708	11173
55°	184420	49543	4294	9428	12341
60°	146286	11814	4512	10023	13364
65°	9291	2078	4401	10229	14426
70°	2014	2316	4330	10625	15257
75°	1930	2262	3793	10247	15571
80°	1686	2281	3967	10215	14679
85°	1186	2174	4545	9090	14623

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 200920 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.8	1.2
10°-20°	39.1	6.2
20°-30°	90.8	14.5
30°-40°	141.2	22.5
40°-50°	160.9	25.6
50°-60°	135.5	21.6
60°-70°	39.3	6.3
70°-80°	10.1	1.6
80°-90°	3.4	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°	137.7	21.9
0°-40°	278.9	44.4
0°-60°	575.2	91.6
0°-90°	628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	62	62	62	62	62	
5°	122	95	61	46	44	16
15°	400	226	50	41	42	116
25°	682	357	36	38	42	317
35°	812	433	23	35	41	504
45°	782	370	18	34	42	587
55°	614	165	14	31	41	517
65°	23	5	11	25	35	113
75°	3	3	6	15	23	3
85°	1	1	2	5	7	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2	62.2
2.5°	83.9	83.3	83.3	82.8	82.2	81.6	79.9	79.3	75.9	69.1	62.2
5°	122.2	121.6	119.9	119.3	116.5	112.5	108.5	104.5	95.3	75.9	61.1
7.5°	177.0	178.1	177.0	170.7	166.7	160.4	148.4	139.9	121.6	82.8	58.8
10°	249.5	249.5	247.8	238.0	229.5	217.5	202.1	187.2	153.6	89.1	56.5
12.5°	328.2	330.0	321.4	313.4	298.0	283.1	262.0	239.8	190.1	94.2	53.7
15°	400.2	399.0	390.5	380.2	364.2	343.7	321.4	292.9	226.1	97.6	49.7
17.5°	464.1	461.8	454.4	443.0	423.6	400.7	372.2	341.4	263.2	100.5	46.8
20°	522.3	514.3	505.8	493.8	475.0	451.0	421.3	386.5	298.0	100.5	43.4
22.5°	596.0	588.0	576.0	557.7	532.6	502.9	468.1	428.7	328.8	98.2	40.0
25°	681.6	675.3	654.8	631.4	598.8	563.4	522.9	469.8	356.8	94.8	36.5
27.5°	756.4	749.5	729.0	694.7	655.3	613.1	570.3	516.1	381.3	88.5	32.5
30°	810.6	802.1	786.1	753.5	705.6	654.2	603.4	551.5	405.9	81.1	29.1
32.5°	824.9	823.8	811.8	787.8	745.0	688.5	627.9	571.4	425.3	71.4	26.3
35°	811.8	813.5	811.2	799.2	767.8	712.4	643.9	582.3	432.7	61.7	23.4
37.5°	787.8	790.1	794.1	795.8	775.8	726.7	653.1	586.8	431.0	51.9	21.7
40°	771.2	770.1	770.1	781.5	777.5	733.0	654.2	583.4	420.7	41.7	20.0
42.5°	772.9	760.4	751.8	770.1	775.8	730.1	646.8	574.3	398.5	32.0	18.3
45°	781.5	754.7	739.8	763.2	772.4	720.4	633.1	560.6	369.9	22.3	17.7
47.5°	749.5	731.8	729.6	762.7	766.1	703.9	612.0	538.9	342.5	15.4	16.6
50°	696.4	693.6	705.6	739.8	740.4	676.5	588.0	499.5	301.4	10.8	16.0
52.5°	679.9	681.6	692.5	710.2	693.6	630.2	544.6	466.4	249.5	8.6	15.4
55°	614.2	617.1	627.4	638.2	626.2	573.7	492.1	426.4	165.0	8.0	14.3
57.5°	462.4	469.8	488.7	498.4	499.5	467.5	445.8	367.6	93.1	8.0	13.7
60°	424.7	415.0	406.5	386.5	368.2	364.2	366.5	275.7	34.3	7.4	13.1
62.5°	222.1	217.5	230.6	239.2	241.5	254.0	237.5	145.6	7.4	7.4	12.0
65°	22.8	22.8	28.0	37.1	61.7	82.2	78.2	42.2	5.1	6.9	10.8
67.5°	6.9	6.9	6.9	8.0	10.3	10.3	8.6	6.3	5.1	6.3	9.7
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.6	4.0	4.6	5.7	8.6
72.5°	3.4	3.4	3.4	3.4	4.0	4.0	4.0	4.0	4.0	5.1	7.4
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.4	3.4	4.0	5.7
77.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9	3.4	4.6
80°	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3	2.9	4.0
82.5°	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7	1.7	2.3	2.9
85°	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.7	2.3
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.7
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):

	112.5°	135°	157.5°	180°
0°	62.2	62.2	62.2	62.2
2.5°	56.5	52.5	50.2	49.1
5°	51.4	46.2	44.5	44.0
7.5°	46.8	43.4	42.8	42.8
10°	44.0	41.7	42.2	42.2
12.5°	42.2	41.7	42.2	42.8
15°	40.5	41.1	42.2	42.2
17.5°	39.4	40.5	41.7	42.2
20°	37.7	40.0	41.7	41.7
22.5°	36.5	39.4	41.1	41.7
25°	35.4	38.2	40.5	41.7
27.5°	33.7	37.7	40.5	41.1
30°	32.0	36.5	40.0	41.7
32.5°	30.3	36.0	40.0	41.1
35°	29.1	35.4	40.0	41.1
37.5°	28.0	34.8	40.0	41.7
40°	27.4	34.3	39.4	41.7
42.5°	26.3	34.3	39.4	41.7
45°	25.7	33.7	39.4	41.7
47.5°	25.1	33.1	39.4	41.7
50°	24.0	32.5	38.8	41.7
52.5°	23.4	32.0	38.8	41.7
55°	22.3	31.4	38.2	41.1
57.5°	21.7	30.3	37.7	40.0
60°	20.6	29.1	36.5	38.8
62.5°	18.8	27.4	34.8	37.7
65°	17.1	25.1	33.1	35.4
67.5°	15.4	23.4	30.8	33.1
70°	13.7	21.1	28.0	30.3
72.5°	12.0	18.3	25.1	26.8
75°	10.3	15.4	21.1	23.4
77.5°	8.0	12.6	17.7	19.4
80°	6.3	10.3	13.7	14.8
82.5°	5.1	7.4	10.3	10.8
85°	3.4	4.6	6.3	7.4
87.5°	1.7	2.3	2.9	3.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)