

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: P1319728

Luminaire Tested: LDSQA3D02R559840DE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R559840DE010 3LSQCA45R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

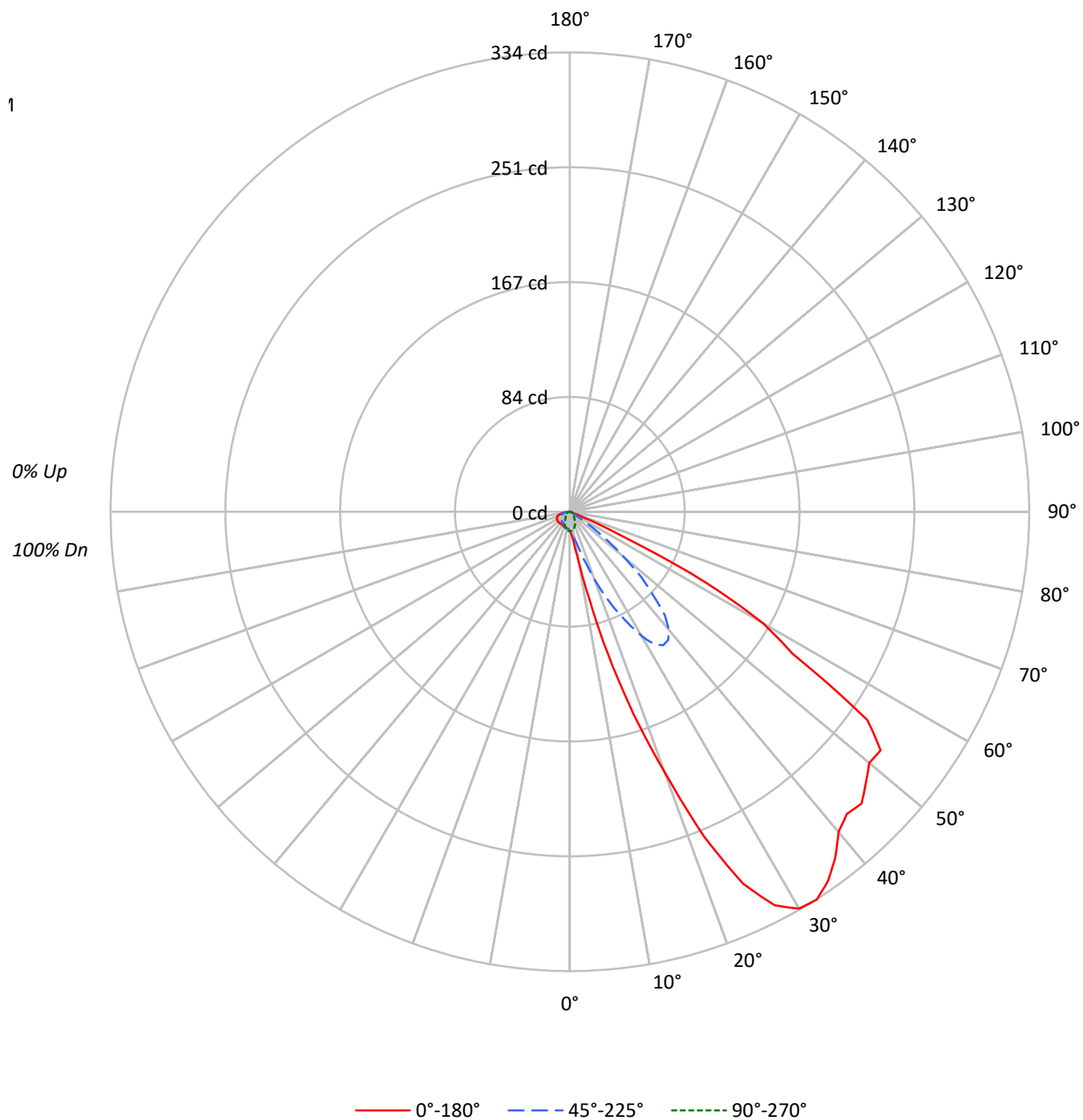
Lumens per Lamp: N/A
Luminaire Lumens: 215.0 lumens
Efficiency: N/A
Efficacy: 59.7 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.94
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
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
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	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2394	2394	2394	2394	2394
5°	3060	2783	2403	2230	2161
10°	6208	3550	2326	2134	2134
15°	19078	5456	2175	2068	2140
20°	36875	9549	1943	2016	2126
25°	56742	14841	1691	1957	2128
30°	66262	20742	1392	1929	2188
35°	68855	24914	1156	1913	2271
40°	68323	25157	1057	2001	2473
45°	73068	20824	1023	2168	2679
50°	76146	13745	1018	2331	3001
55°	79299	5975	1021	2552	3303
60°	56007	1378	1033	2824	3720
65°	18257	448	1019	3016	4197
70°	554	453	1057	3273	4784
75°	532	532	865	3394	5323
80°	397	595	893	3372	5653
85°	395	790	1186	3359	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 80572 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.7
10°-20°	9.1	4.2
20°-30°	30.6	14.2
30°-40°	50.2	23.4
40°-50°	56.0	26.1
50°-60°	47.2	21.9
60°-70°	16.0	7.4
70°-80°	3.1	1.5
80°-90°	1.2	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°	41.2	19.2
0°-40°	91.5	42.5
0°-60°	194.7	90.6
0°-90°	215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	215.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	18	16	14	13	12	2
15°	107	31	12	12	12	34
25°	299	78	9	10	11	134
35°	328	118	6	9	11	203
45°	300	86	4	9	11	229
55°	264	20	3	8	11	215
65°	45	1	2	7	10	61
75°	1	1	1	5	8	1
85°	0	0	1	2	3	0
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°	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.9
2.5°	15.2	15.2	15.2	15.2	15.2	15.2	15.0	14.4	14.1	13.5	13.3
5°	17.7	17.7	17.7	17.5	17.5	17.1	16.1	14.8	13.9	13.1	12.9
7.5°	22.8	22.6	22.2	22.0	21.5	21.3	17.9	15.2	13.7	12.7	12.5
10°	35.5	35.1	34.6	32.5	30.6	29.3	20.3	15.4	13.3	12.3	12.2
12.5°	64.0	63.3	60.4	56.0	50.7	48.1	24.3	15.6	12.7	12.0	12.0
15°	107.0	106.0	100.7	94.6	84.9	79.6	30.6	15.4	12.2	11.4	11.6
17.5°	154.4	151.8	146.3	138.3	125.2	118.9	39.9	15.0	11.4	11.0	11.4
20°	201.2	200.4	191.3	180.5	164.3	156.0	52.1	14.4	10.6	10.4	11.0
22.5°	255.9	252.7	243.0	231.4	209.2	198.1	65.2	13.7	9.9	9.9	10.6
25°	298.6	294.8	287.2	273.7	252.7	240.9	78.1	12.7	8.9	9.3	10.3
27.5°	322.6	318.2	312.5	300.9	284.6	274.1	91.0	11.6	8.0	8.7	9.9
30°	333.2	332.1	327.9	319.3	304.3	295.0	104.3	10.3	7.0	8.2	9.7
32.5°	334.3	334.9	333.2	327.7	316.3	308.3	114.2	9.1	6.3	7.8	9.3
35°	327.5	329.6	330.7	328.5	321.0	314.6	118.5	7.8	5.5	7.4	9.1
37.5°	316.9	320.7	324.5	325.0	320.5	316.3	117.4	6.6	5.1	7.2	9.1
40°	303.9	307.4	315.2	320.1	318.6	315.5	111.9	5.5	4.7	6.8	8.9
42.5°	298.1	298.8	307.2	315.5	315.2	312.7	102.2	4.4	4.4	6.8	8.9
45°	300.0	296.5	302.0	311.7	311.2	307.9	85.5	3.4	4.2	6.6	8.9
47.5°	292.0	287.2	296.5	307.9	305.8	301.1	70.7	2.5	4.0	6.5	8.7
50°	284.2	283.4	290.6	296.3	293.5	290.8	51.3	1.9	3.8	6.3	8.7
52.5°	284.8	283.4	284.2	284.0	278.3	275.4	35.1	1.5	3.6	6.1	8.7
55°	264.1	259.9	255.9	257.0	257.4	255.5	19.9	1.3	3.4	6.1	8.5
57.5°	191.9	190.7	195.1	207.4	217.1	218.3	9.7	1.3	3.2	5.9	8.4
60°	162.6	161.9	162.0	165.6	170.8	167.5	4.0	1.3	3.0	5.7	8.2
62.5°	112.1	119.5	122.5	130.9	127.5	122.9	1.5	1.5	2.8	5.3	8.0
65°	44.8	44.6	48.8	52.8	51.7	48.3	1.1	1.3	2.5	4.9	7.4
67.5°	10.4	9.5	8.2	7.0	5.9	4.7	1.1	1.3	2.3	4.6	7.0
70°	1.1	1.1	1.1	1.1	1.1	0.9	0.9	1.3	2.1	4.2	6.5
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.7	3.6	5.9
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.3	3.0	5.1
77.5°	0.6	0.6	0.6	0.8	0.6	0.8	0.8	0.9	1.1	2.5	4.4
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	0.9	2.1	3.4
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.5	2.5
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.1	1.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.8
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°	13.9	13.9
2.5°	13.1	13.1
5°	12.7	12.5
7.5°	12.3	12.3
10°	12.2	12.2
12.5°	12.0	12.2
15°	12.0	12.0
17.5°	11.6	11.8
20°	11.4	11.6
22.5°	11.2	11.4
25°	11.0	11.2
27.5°	10.8	11.0
30°	10.6	11.0
32.5°	10.4	10.8
35°	10.4	10.8
37.5°	10.4	11.0
40°	10.4	11.0
42.5°	10.4	11.0
45°	10.4	11.0
47.5°	10.4	11.0
50°	10.4	11.2
52.5°	10.4	11.2
55°	10.4	11.0
57.5°	10.3	11.0
60°	10.3	10.8
62.5°	10.1	10.6
65°	9.7	10.3
67.5°	9.3	10.1
70°	8.7	9.5
72.5°	8.2	8.7
75°	7.4	8.0
77.5°	6.5	6.8
80°	5.1	5.7
82.5°	4.0	4.4
85°	2.7	2.8
87.5°	1.1	1.3
90°	0.0	0.0

(END OF REPORT)