

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: P1319742

Luminaire Tested: LDSQA3D02R659840DE010 3LSQCA45R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319742
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: LDSQA3D02R659840DE010 3LSQCA45R 1MB
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 98CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

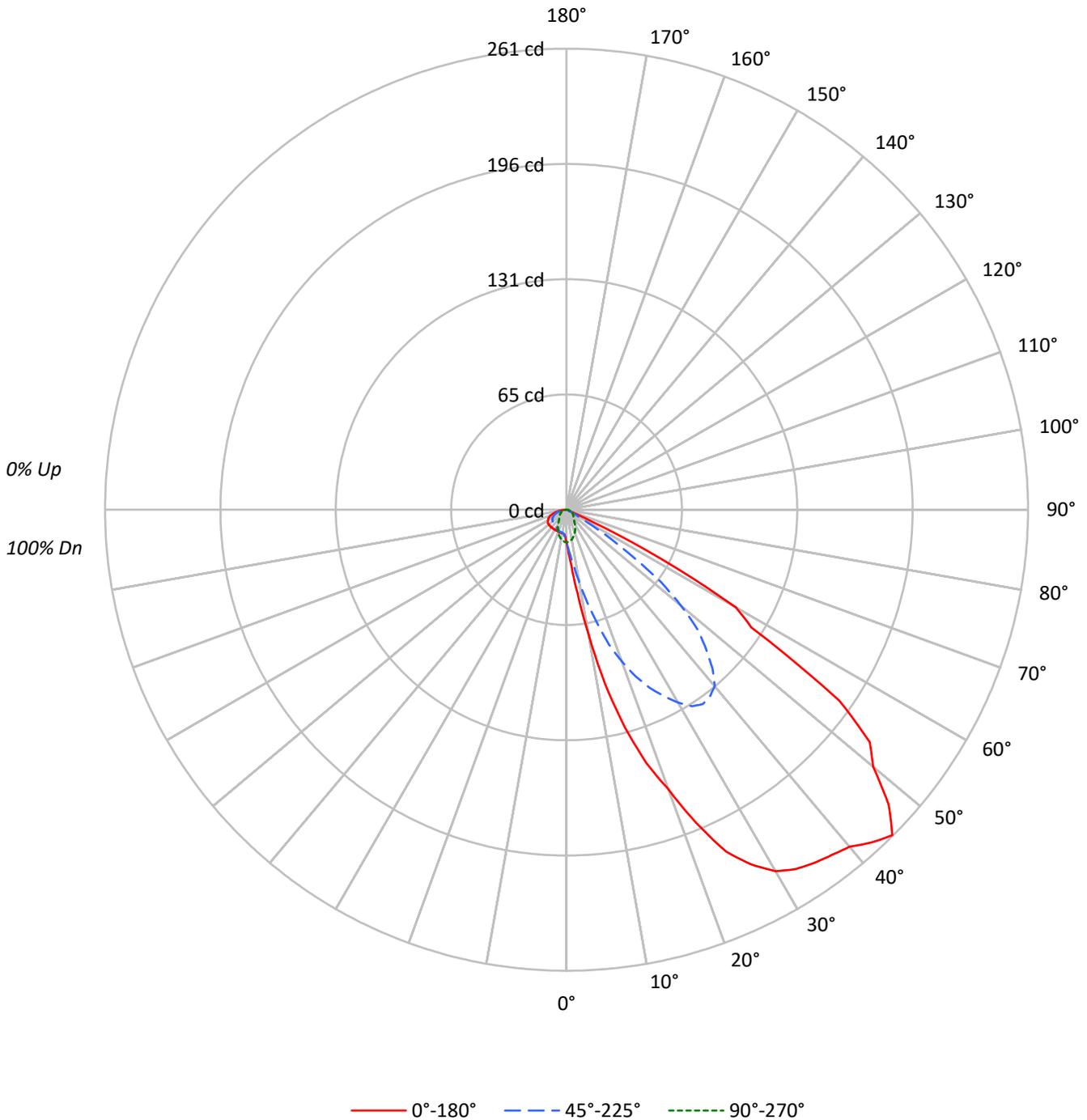
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 189.0 lumens
Efficiency: N/A
Efficacy: 52.5 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): 3.6
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	87
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74	74	74	74
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53	53	53	53
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	45
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39	39	39	39
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34	34	34	34
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26	26	26	26
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23	23	23	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3169	3169	3169	3169	3169
5°	5532	4529	3112	2524	2420
10°	12521	7292	2990	2326	2361
15°	22769	11732	2764	2336	2407
20°	30882	16733	2493	2328	2438
25°	40590	21131	2204	2261	2489
30°	46992	25057	1889	2267	2605
35°	51321	28257	1598	2313	2754
40°	55980	29317	1416	2428	2945
45°	63472	27181	1340	2582	3191
50°	60633	22694	1313	2733	3510
55°	56509	12731	1351	2973	3873
60°	38061	2756	1378	3134	4168
65°	5868	693	1304	3260	4564
70°	655	655	1259	3323	4884
75°	599	599	1131	3261	4924
80°	595	793	1091	2975	4860
85°	395	790	1186	2964	4545

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 63472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.2	1.2
10°-20°	12.0	6.4
20°-30°	28.2	14.9
30°-40°	42.7	22.6
40°-50°	49.0	25.9
50°-60°	38.9	20.6
60°-70°	11.7	6.2
70°-80°	3.2	1.7
80°-90°	1.1	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°	42.5	22.5
0°-40°	85.1	45.0
0°-60°	173.1	91.6
0°-90°	189.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	189.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	32	26	18	15	14	4
15°	128	66	16	13	14	37
25°	214	111	12	12	13	97
35°	244	134	8	11	13	153
45°	261	112	6	11	13	194
55°	188	42	4	10	13	155
65°	14	2	3	8	11	32
75°	1	1	2	5	7	1
85°	0	0	1	2	2	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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4	18.4
2.5°	23.3	23.5	23.3	23.3	23.1	22.9	21.6	20.1	18.4	17.1	16.1
5°	32.0	32.2	31.6	31.6	31.3	30.7	26.2	21.8	18.0	15.9	14.6
7.5°	47.4	48.1	47.2	46.0	44.0	43.6	32.6	23.5	17.6	14.8	13.6
10°	71.6	71.1	70.1	67.8	64.2	62.5	41.7	25.2	17.1	14.0	13.3
12.5°	101.0	99.5	98.4	94.2	89.3	86.4	53.1	26.7	16.3	13.3	13.1
15°	127.7	126.6	123.9	120.0	113.9	111.6	65.8	27.7	15.5	12.7	13.1
17.5°	150.3	149.1	147.6	143.6	137.4	134.0	80.0	28.2	14.6	12.3	12.9
20°	168.5	167.7	165.6	162.4	156.2	152.9	91.3	28.2	13.6	11.9	12.7
22.5°	192.0	190.3	187.6	182.9	175.1	170.2	102.1	27.7	12.7	11.6	12.3
25°	213.6	212.4	209.0	203.3	195.0	190.1	111.2	26.5	11.6	11.0	11.9
27.5°	226.5	225.7	222.5	216.6	207.3	203.5	118.8	24.8	10.4	10.4	11.7
30°	236.3	234.8	231.6	225.9	216.4	211.9	126.0	22.7	9.5	9.9	11.4
32.5°	241.2	240.7	237.8	232.9	223.6	218.5	131.9	20.1	8.3	9.5	11.2
35°	244.1	243.5	241.2	236.5	227.8	222.9	134.4	17.6	7.6	9.1	11.0
37.5°	246.4	245.8	242.9	238.2	229.5	224.4	133.2	15.0	6.8	8.7	10.8
40°	249.0	246.9	242.6	237.8	229.9	224.9	130.4	12.5	6.3	8.5	10.8
42.5°	255.5	248.2	241.4	237.1	229.5	223.8	122.2	9.9	5.7	8.1	10.6
45°	260.6	247.9	239.2	235.7	228.0	221.5	111.6	7.2	5.5	8.0	10.6
47.5°	247.1	239.3	235.4	233.5	225.1	218.1	100.6	4.9	5.3	7.8	10.4
50°	226.3	225.3	223.8	224.0	216.4	210.7	84.7	3.4	4.9	7.6	10.2
52.5°	216.2	215.1	212.4	210.5	203.0	198.0	67.1	2.7	4.7	7.4	10.0
55°	188.2	188.9	186.1	187.2	185.0	182.5	42.4	2.5	4.5	7.0	9.9
57.5°	123.9	127.7	134.4	142.3	149.5	154.4	22.9	2.5	4.2	6.8	9.5
60°	110.5	109.5	109.3	110.9	114.1	116.7	8.0	2.3	4.0	6.3	9.1
62.5°	60.5	60.1	65.8	75.4	81.1	81.7	2.3	2.3	3.6	5.9	8.5
65°	14.4	15.0	16.7	20.8	24.6	27.1	1.7	2.1	3.2	5.5	8.0
67.5°	2.3	2.5	2.5	3.0	3.4	3.4	1.5	1.9	2.8	4.9	7.4
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.7	2.5	4.4	6.6
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.5	2.1	3.8	5.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.7	3.0	4.9
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.1	1.5	2.5	4.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.9	1.1	1.9	3.0
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8	0.9	1.5	2.3
85°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.6	0.9	1.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	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°	18.4	18.4
2.5°	15.5	15.3
5°	14.0	14.0
7.5°	13.5	13.5
10°	13.3	13.5
12.5°	13.3	13.5
15°	13.3	13.5
17.5°	13.3	13.5
20°	13.1	13.3
22.5°	12.9	13.1
25°	12.7	13.1
27.5°	12.5	13.1
30°	12.5	13.1
32.5°	12.5	13.1
35°	12.3	13.1
37.5°	12.3	13.1
40°	12.3	13.1
42.5°	12.3	13.1
45°	12.3	13.1
47.5°	12.3	13.1
50°	12.3	13.1
52.5°	12.1	13.1
55°	12.1	12.9
57.5°	11.7	12.5
60°	11.4	12.1
62.5°	11.0	11.7
65°	10.4	11.2
67.5°	9.9	10.4
70°	8.9	9.7
72.5°	8.0	8.5
75°	6.8	7.4
77.5°	5.7	6.3
80°	4.5	4.9
82.5°	3.2	3.6
85°	2.1	2.3
87.5°	0.9	0.9
90°	0.0	0.0

(END OF REPORT)