

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: P1325213

Luminaire Tested: LDSQA3D05R45W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-84)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R45W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

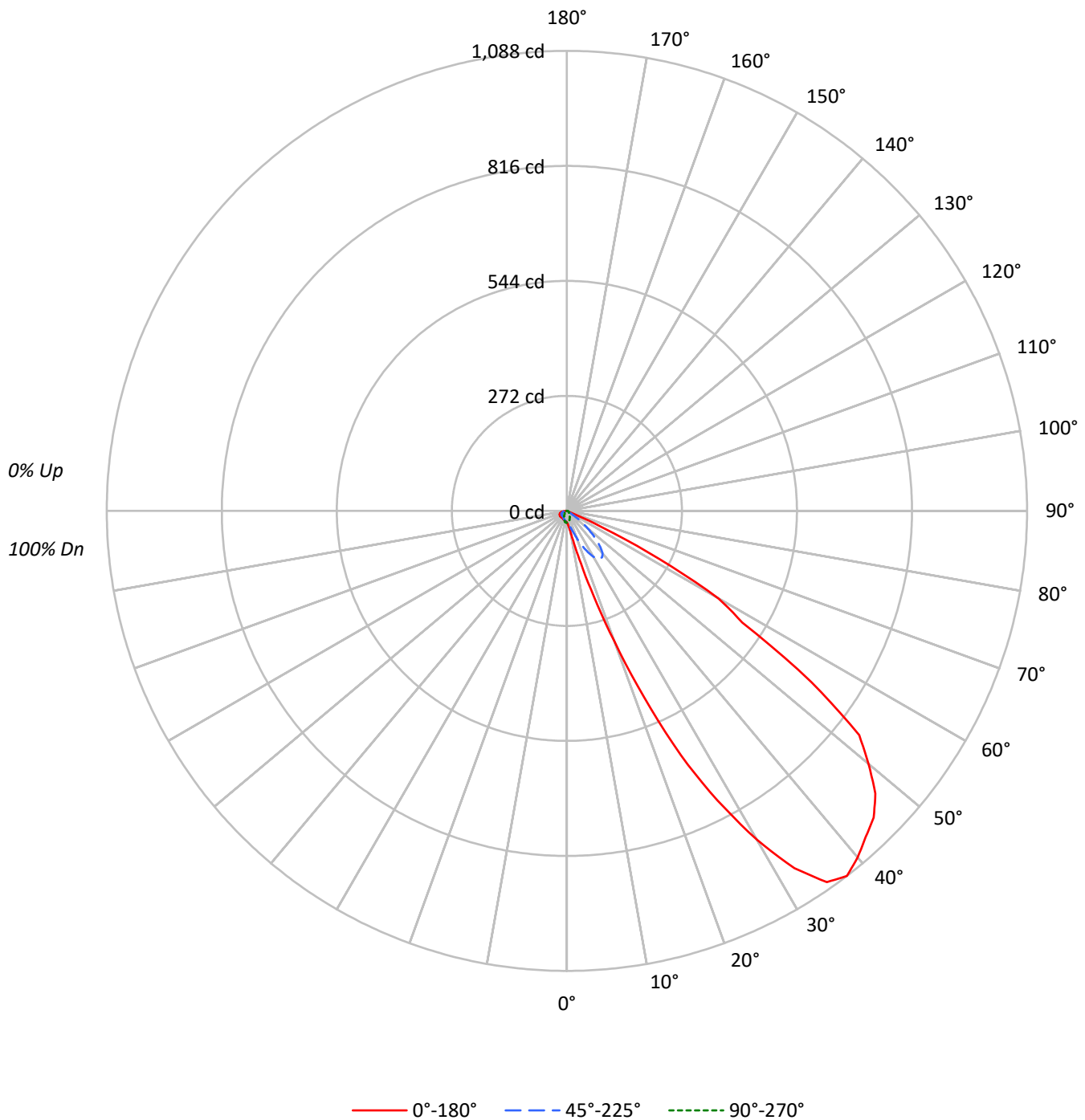
Lumens per Lamp: N/A
Luminaire Lumens: 486.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 3.81 / 0.82 / 1.83
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 5.9
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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88	86	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61	61
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51	51
5	76	63	53	47	73	61	53	46	59	52	46	57	51	45	55	50	45	43	43
6	69	55	46	39	67	54	46	39	52	45	39	51	44	39	49	43	38	36	36
7	63	49	40	34	61	48	40	33	47	39	33	45	38	33	44	37	33	31	31
8	58	44	35	29	56	43	35	29	42	34	29	40	33	28	39	33	28	26	26
9	53	39	31	25	52	39	30	25	38	30	25	36	29	25	35	29	24	22	22
10	49	36	27	22	48	35	27	22	34	27	21	33	26	21	32	26	21	19	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4839	4839	4839	4839	4839
5°	5757	5342	4789	4443	4443
10°	9199	6243	4494	4215	4215
15°	22911	8380	4083	3940	4083
20°	60353	12518	3537	3757	3977
25°	121180	18547	3059	3515	3896
30°	178641	24838	2466	3440	3997
35°	225341	29119	2102	3385	4142
40°	240423	29429	1888	3530	4429
45°	249795	24551	1754	3824	4798
50°	249390	17094	1715	4099	5385
55°	211984	7597	1802	4594	5915
60°	142463	1516	1791	5132	6786
65°	37817	652	1793	5583	7702
70°	1007	806	1813	6043	8711
75°	799	799	1863	6388	9915
80°	793	1190	1984	6744	11108
85°	790	1581	3162	7114	11066

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°

Vertical Angle: 47.5°

Luminance: 256222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.6
10°-20°	13.7	2.8
20°-30°	56.5	11.6
30°-40°	119.2	24.5
40°-50°	147.0	30.2
50°-60°	110.2	22.7
60°-70°	28.4	5.8
70°-80°	5.9	1.2
80°-90°	2.4	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°	73.1	15.0
0°-40°	192.2	39.5
0°-60°	449.4	92.5
0°-90°	486.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	486.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	28	28	28	28	28	
5°	33	31	28	26	26	4
15°	128	47	23	22	23	47
25°	638	98	16	18	20	297
35°	1072	138	10	16	20	653
45°	1026	101	7	16	20	785
55°	706	25	6	15	20	610
65°	93	2	4	14	19	134
75°	1	1	3	10	15	1
85°	0	1	2	4	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1	28.1
2.5°	29.7	29.7	29.7	29.7	29.7	29.7	29.7	29.3	28.9	28.1	27.3
5°	33.3	32.9	32.9	32.9	32.5	32.1	32.1	30.9	29.3	27.7	26.5
7.5°	39.4	39.4	39.0	38.1	37.7	36.9	36.1	32.9	29.3	26.9	25.3
10°	52.6	51.8	50.6	49.8	47.8	45.0	43.0	35.7	28.9	25.7	24.5
12.5°	78.7	80.3	76.3	72.3	66.7	61.4	55.0	40.6	28.9	24.5	23.3
15°	128.5	131.3	123.7	115.7	102.0	89.1	77.1	47.0	28.1	22.9	21.7
17.5°	210.0	213.6	200.8	181.9	160.6	134.9	112.8	55.8	27.3	21.3	20.5
20°	329.3	328.9	304.0	280.3	239.3	201.6	160.2	68.3	26.1	19.3	19.3
22.5°	475.9	477.5	446.9	404.4	346.2	285.5	219.7	82.7	24.5	17.7	18.1
25°	637.7	624.0	587.9	536.1	461.8	377.9	291.1	97.6	22.9	16.1	16.9
27.5°	772.6	759.4	718.0	656.6	576.7	477.1	363.8	112.4	20.9	14.5	15.7
30°	898.3	881.4	831.7	762.2	667.0	559.4	432.1	124.9	18.5	12.4	14.5
32.5°	1001.9	986.7	930.0	849.3	745.7	630.1	489.9	134.5	16.1	11.2	13.7
35°	1071.8	1056.1	1003.9	915.2	802.3	681.5	536.9	138.5	14.1	10.0	13.3
37.5°	1087.9	1079.4	1042.1	958.9	841.3	714.4	567.0	137.3	11.6	9.2	12.4
40°	1069.4	1071.4	1053.7	984.6	862.2	728.4	579.5	130.9	9.6	8.4	12.0
42.5°	1045.7	1050.9	1049.7	995.1	871.0	729.3	574.2	118.1	7.6	7.6	11.6
45°	1025.6	1030.8	1038.1	990.7	865.0	718.8	557.8	100.8	5.6	7.2	11.6
47.5°	989.1	994.7	1005.1	955.3	834.5	691.9	528.1	81.9	4.0	6.8	11.2
50°	930.8	933.7	930.8	875.0	775.8	648.5	479.9	63.8	2.8	6.4	11.2
52.5°	871.0	865.4	842.1	771.4	682.7	579.9	419.2	45.4	2.0	6.0	10.8
55°	706.0	697.1	679.9	636.5	585.9	495.5	338.9	25.3	2.0	6.0	10.4
57.5°	491.9	496.7	502.8	493.9	470.6	390.3	257.4	11.2	2.0	5.6	10.4
60°	413.6	409.6	410.0	404.4	365.8	284.7	177.1	4.4	2.0	5.2	10.0
62.5°	247.0	249.8	255.0	256.2	218.1	159.0	92.8	2.0	2.0	4.8	9.6
65°	92.8	97.2	85.1	73.9	58.6	43.0	21.7	1.6	2.4	4.4	8.8
67.5°	2.8	3.2	4.0	3.6	3.6	3.2	2.4	1.6	2.4	4.0	8.4
70°	2.0	2.0	2.0	2.0	2.0	1.6	1.6	1.6	2.0	3.6	7.6
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	3.2	6.8
75°	1.2	1.6	1.2	1.2	1.2	1.2	1.2	1.2	2.0	2.8	5.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4	4.8
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6	2.0	4.0
82.5°	0.8	0.8	0.8	0.4	0.8	0.8	0.8	0.8	1.6	1.6	3.2
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	1.2	1.6	2.0
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.8	1.2	1.2	1.2
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):

	135°	157.5°	180°
0°	28.1	28.1	28.1
2.5°	26.5	26.5	26.5
5°	25.7	25.7	25.7
7.5°	24.9	24.9	24.9
10°	24.1	24.1	24.1
12.5°	23.3	23.3	23.7
15°	22.1	22.9	22.9
17.5°	21.3	22.1	22.5
20°	20.5	21.3	21.7
22.5°	19.3	20.5	21.3
25°	18.5	20.1	20.5
27.5°	17.7	19.7	20.5
30°	17.3	19.3	20.1
32.5°	16.5	18.9	19.7
35°	16.1	18.9	19.7
37.5°	16.1	18.5	19.7
40°	15.7	18.5	19.7
42.5°	15.7	18.5	19.7
45°	15.7	18.5	19.7
47.5°	15.3	18.5	20.1
50°	15.3	18.9	20.1
52.5°	15.3	18.9	20.1
55°	15.3	18.9	19.7
57.5°	14.9	18.5	19.7
60°	14.9	18.5	19.7
62.5°	14.1	18.1	19.3
65°	13.7	17.7	18.9
67.5°	12.9	17.3	18.1
70°	12.0	16.1	17.3
72.5°	10.8	15.3	16.5
75°	9.6	14.1	14.9
77.5°	8.4	12.4	13.3
80°	6.8	10.4	11.2
82.5°	5.2	8.0	8.4
85°	3.6	5.2	5.6
87.5°	1.6	2.4	2.8
90°	0.0	0.0	0.0

(END OF REPORT)