

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: P1325682

Luminaire Tested: LDSQA3D05R70W2N902765DE010 3LSQCA45R 1MMS_3500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R70W2N902765DE010 3LSQCA45R 1MMS_3500K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3500K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

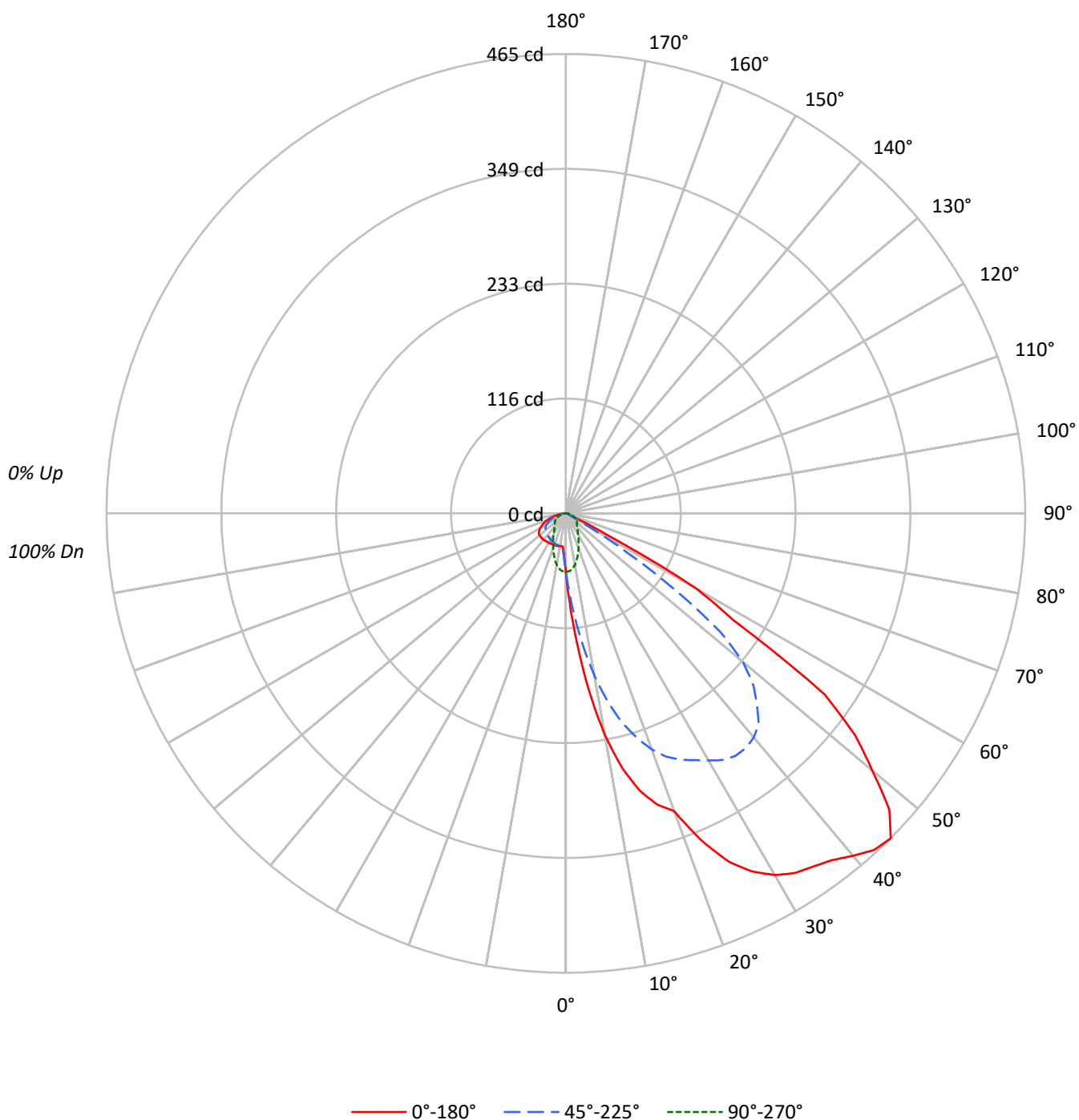
Lumens per Lamp: N/A
Luminaire Lumens: 402.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87	87
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75	75
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64	64
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54	54
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47	47
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41	41
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28	28
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	10092	10092	10092	10092	10092
5°	22959	18377	9992	6310	5895
10°	39768	29170	9251	5754	5893
15°	51920	38976	8077	5866	6080
20°	58813	46607	6909	5956	6323
25°	73844	52276	5796	6024	6480
30°	84060	57432	4952	6145	6861
35°	91751	62989	4310	6244	7253
40°	101709	66547	3957	6497	7846
45°	113304	66614	3897	6844	8500
50°	108539	62642	3858	7207	9244
55°	96114	40595	3963	7597	9999
60°	52631	8714	3996	7750	10368
65°	3749	2119	3912	7702	10473
70°	1813	2014	3626	7251	10121
75°	1597	2129	3460	6920	9316
80°	1587	1984	3174	6347	8728
85°	1581	2371	3162	5533	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 113304 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.6	1.9
10°-20°	32.7	8.1
20°-30°	62.7	15.6
30°-40°	88.6	22.1
40°-50°	100.3	24.9
50°-60°	79.4	19.8
60°-70°	21.4	5.3
70°-80°	7.1	1.8
80°-90°	2.2	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°	103.0	25.6
0°-40°	191.6	47.7
0°-60°	371.3	92.4
0°-90°	402.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	402.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	59	59	59	59	59	
5°	133	106	58	36	34	16
15°	291	219	45	33	34	82
25°	389	275	30	32	34	178
35°	436	300	20	30	34	275
45°	465	274	16	28	35	348
55°	320	135	13	25	33	260
65°	9	5	10	19	26	33
75°	2	3	5	10	14	3
85°	1	1	2	3	4	1
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°	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6	58.6
2.5°	91.0	91.0	90.6	89.0	88.2	86.2	84.6	80.2	69.4	59.0	50.5
5°	132.8	134.8	132.0	131.6	129.1	125.5	123.1	106.3	80.2	57.8	43.3
7.5°	182.1	182.9	182.1	178.1	174.5	168.5	162.8	136.4	91.0	55.7	38.1
10°	227.4	226.2	223.8	221.0	215.8	209.4	199.7	166.8	101.5	52.9	34.9
12.5°	264.3	263.9	261.1	258.3	251.9	243.5	233.8	194.5	110.3	49.3	33.3
15°	291.2	291.2	288.4	285.2	279.1	272.3	261.5	218.6	117.5	45.3	31.7
17.5°	309.2	308.4	306.4	304.0	299.2	292.4	284.0	237.8	122.3	41.3	31.3
20°	320.9	320.5	318.9	315.2	311.2	306.0	298.4	254.3	124.3	37.7	30.9
22.5°	358.2	355.0	348.9	341.3	331.7	319.3	308.8	266.7	123.5	33.7	30.1
25°	388.6	387.4	381.0	371.8	359.0	342.9	325.7	275.1	119.5	30.5	29.3
27.5°	408.7	406.7	400.7	390.6	377.0	361.4	345.3	281.6	113.9	27.7	28.1
30°	422.7	421.5	415.5	404.3	390.2	373.0	356.6	288.8	106.3	24.9	26.9
32.5°	431.6	430.4	424.3	414.3	400.7	382.6	363.8	296.0	97.1	22.5	25.7
35°	436.4	435.2	428.3	419.5	406.7	389.0	369.0	299.6	85.8	20.5	24.5
37.5°	442.4	440.0	430.8	419.9	407.1	390.6	370.6	299.2	74.6	18.9	23.7
40°	452.4	446.0	432.8	418.3	405.1	388.6	369.4	296.0	62.2	17.6	22.9
42.5°	462.0	452.8	433.2	415.9	401.1	385.0	365.0	288.8	48.5	16.8	22.5
45°	465.2	451.6	427.5	410.3	396.3	379.8	359.0	273.5	32.9	16.0	21.7
47.5°	444.0	434.0	413.9	401.1	387.8	371.8	350.1	257.5	18.9	15.2	20.9
50°	405.1	398.7	387.4	379.4	372.2	361.0	339.7	233.8	11.2	14.4	20.1
52.5°	369.0	367.0	359.0	352.5	348.5	343.3	324.1	197.3	9.2	14.0	19.3
55°	320.1	313.6	311.6	309.2	317.7	317.3	291.2	135.2	8.8	13.2	18.4
57.5°	200.9	203.7	214.2	233.4	256.3	269.5	268.7	72.2	8.4	12.4	17.2
60°	152.8	152.4	155.6	163.6	180.5	199.3	217.0	25.3	8.0	11.6	16.4
62.5°	45.7	46.9	56.6	83.0	99.5	122.7	111.9	6.0	7.6	10.4	14.8
65°	9.2	9.6	9.6	10.8	13.2	20.1	24.5	5.2	7.2	9.6	13.6
67.5°	4.0	4.0	4.0	4.4	4.4	5.2	4.4	4.8	6.4	8.4	12.0
70°	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.0	5.6	7.2	10.4
72.5°	2.8	2.8	2.8	3.2	3.2	3.2	3.2	3.6	4.8	6.0	8.8
75°	2.4	2.4	2.4	2.4	2.8	2.8	2.8	3.2	4.0	5.2	7.2
77.5°	2.0	2.0	2.0	2.0	2.0	2.4	2.4	2.4	3.2	4.0	6.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.4	3.2	4.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.0	2.4	3.2
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	0.8	0.8	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°	58.6	58.6	58.6
2.5°	44.5	42.1	40.9
5°	36.5	34.5	34.1
7.5°	33.7	33.3	33.3
10°	32.9	33.3	33.7
12.5°	32.9	33.7	34.1
15°	32.9	33.7	34.1
17.5°	32.9	33.7	34.1
20°	32.5	33.7	34.5
22.5°	32.1	33.7	34.1
25°	31.7	33.7	34.1
27.5°	31.3	33.3	34.1
30°	30.9	33.3	34.5
32.5°	30.1	33.3	34.5
35°	29.7	33.3	34.5
37.5°	29.3	33.3	34.9
40°	28.9	33.3	34.9
42.5°	28.5	33.3	34.9
45°	28.1	32.9	34.9
47.5°	27.3	32.9	34.9
50°	26.9	32.5	34.5
52.5°	26.1	32.1	34.5
55°	25.3	31.3	33.3
57.5°	24.1	30.1	31.7
60°	22.5	28.5	30.1
62.5°	20.5	26.5	27.7
65°	18.9	24.1	25.7
67.5°	16.4	21.3	22.9
70°	14.4	18.4	20.1
72.5°	12.4	15.6	17.2
75°	10.4	12.8	14.0
77.5°	8.0	10.4	11.2
80°	6.4	8.0	8.8
82.5°	4.4	5.6	6.0
85°	2.8	3.6	4.0
87.5°	1.2	1.6	1.6
90°	0.0	0.0	0.0

(END OF REPORT)