

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: P1325601

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325601
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: LDSQA3D05R70W2N902750DE010 3LSQCA45R 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

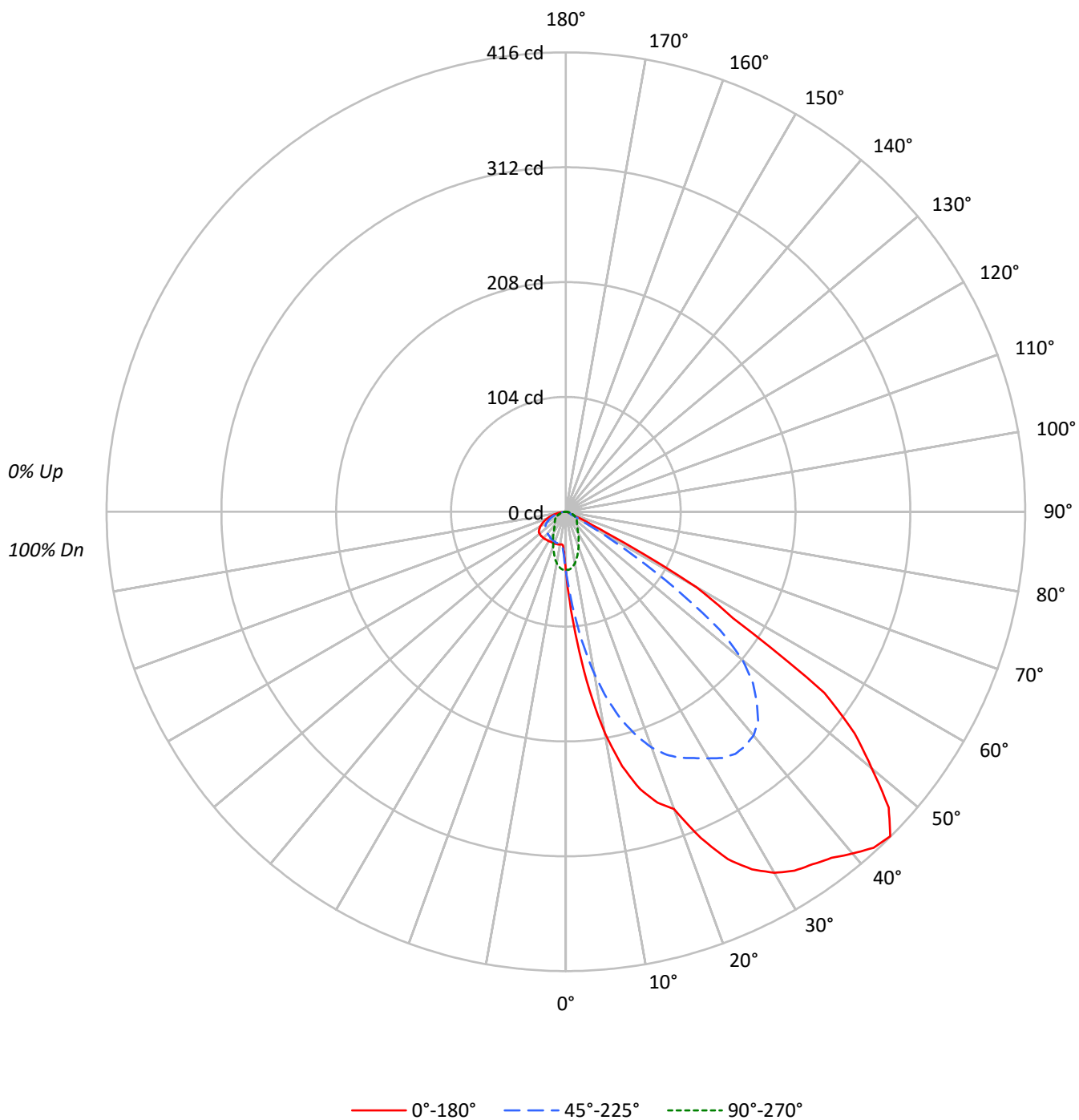
Lumens per Lamp: N/A
Luminaire Lumens: 359.0 lumens
Efficiency: N/A
Efficacy: 60.8 lumens/watt
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	54	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°	9007	9007	9007	9007	9007
5°	20504	16406	8921	5636	5256
10°	35518	26057	8272	5141	5264
15°	46357	34804	7221	5242	5420
20°	52508	41622	6176	5315	5645
25°	65958	46690	5169	5378	5777
30°	75072	51287	4415	5489	6125
35°	81932	56262	3847	5571	6476
40°	90828	59420	3552	5800	7014
45°	101199	59502	3483	6113	7599
50°	96937	55944	3456	6430	8252
55°	85815	36242	3543	6786	8918
60°	47017	7784	3582	6923	9266
65°	3342	1915	3505	6846	9332
70°	1611	1813	3223	6496	9013
75°	1397	1930	3127	6188	8318
80°	1389	1785	2876	5653	7835
85°	1383	2174	2766	4940	7114

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 101199 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	1.9
10°-20°	29.2	8.1
20°-30°	56.0	15.6
30°-40°	79.2	22.0
40°-50°	89.5	24.9
50°-60°	70.9	19.8
60°-70°	19.1	5.3
70°-80°	6.3	1.8
80°-90°	1.9	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°	92.0	25.6
0°-40°	171.1	47.7
0°-60°	331.6	92.4
0°-90°	359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	359.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	119	95	52	33	30	14
15°	260	195	40	29	30	73
25°	347	246	27	28	30	159
35°	390	268	18	26	31	245
45°	416	244	14	25	31	311
55°	286	121	12	23	30	232
65°	8	5	9	17	23	30
75°	2	3	5	9	12	2
85°	1	1	1	2	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°	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3	52.3
2.5°	81.3	81.3	80.9	79.5	78.8	77.0	75.6	71.6	62.0	52.7	45.1
5°	118.6	120.3	117.8	117.5	115.3	112.1	110.0	94.9	71.6	51.6	38.7
7.5°	162.6	163.3	162.6	159.0	155.8	150.4	145.4	121.8	81.3	49.8	34.0
10°	203.1	202.0	199.9	197.4	192.7	187.0	178.4	149.0	90.6	47.3	31.2
12.5°	236.0	235.7	233.2	230.7	224.9	217.4	208.8	173.7	98.5	44.1	29.7
15°	260.0	260.0	257.5	254.7	249.3	243.2	233.5	195.2	104.9	40.5	28.3
17.5°	276.2	275.4	273.6	271.5	267.2	261.1	253.6	212.4	109.2	36.9	27.9
20°	286.5	286.2	284.7	281.5	277.9	273.3	266.5	227.1	111.0	33.7	27.6
22.5°	319.9	317.0	311.6	304.8	296.2	285.1	275.8	238.2	110.3	30.1	26.9
25°	347.1	346.0	340.3	332.0	320.6	306.2	290.8	245.7	106.7	27.2	26.1
27.5°	365.0	363.2	357.8	348.9	336.7	322.7	308.4	251.4	101.7	24.7	25.1
30°	377.5	376.4	371.1	361.0	348.5	333.1	318.4	257.9	94.9	22.2	24.0
32.5°	385.4	384.3	378.9	370.0	357.8	341.7	324.9	264.3	86.7	20.1	22.9
35°	389.7	388.6	382.5	374.7	363.2	347.4	329.5	267.6	76.6	18.3	21.8
37.5°	395.1	392.9	384.7	375.0	363.5	348.9	331.0	267.2	66.6	16.8	21.1
40°	404.0	398.3	386.5	373.6	361.8	347.1	329.9	264.3	55.5	15.8	20.4
42.5°	412.6	404.4	386.8	371.4	358.2	343.8	325.9	257.9	43.3	15.0	20.1
45°	415.5	403.3	381.8	366.4	353.9	339.2	320.6	244.3	29.4	14.3	19.3
47.5°	396.5	387.5	369.6	358.2	346.4	332.0	312.7	229.9	16.8	13.6	18.6
50°	361.8	356.0	346.0	338.8	332.4	322.4	303.4	208.8	10.0	12.9	17.9
52.5°	329.5	327.7	320.6	314.8	311.3	306.6	289.4	176.2	8.2	12.5	17.2
55°	285.8	280.1	278.3	276.2	283.7	283.3	260.0	120.7	7.9	11.8	16.5
57.5°	179.4	182.0	191.3	208.5	228.9	240.7	240.0	64.5	7.5	11.1	15.4
60°	136.5	136.1	139.0	146.1	161.2	178.0	193.8	22.6	7.2	10.4	14.7
62.5°	40.8	41.9	50.5	74.1	88.8	109.6	99.9	5.4	6.8	9.3	13.3
65°	8.2	8.6	8.6	9.7	11.8	17.9	21.8	4.7	6.4	8.6	12.2
67.5°	3.6	3.6	3.6	3.9	3.9	4.7	3.9	4.3	5.7	7.5	10.7
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.6	3.6	5.0	6.4	9.3
72.5°	2.5	2.5	2.5	2.9	2.9	2.9	2.9	3.2	4.3	5.4	7.9
75°	2.1	2.1	2.1	2.1	2.5	2.5	2.5	2.9	3.6	4.7	6.4
77.5°	1.8	1.8	1.8	1.8	1.8	2.1	2.1	2.1	2.9	3.6	5.4
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.8	2.1	2.9	3.9
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	1.8	2.1	2.9
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.4	1.8
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	1.1
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°	52.3	52.3	52.3
2.5°	39.8	37.6	36.5
5°	32.6	30.8	30.4
7.5°	30.1	29.7	29.7
10°	29.4	29.7	30.1
12.5°	29.4	30.1	30.4
15°	29.4	30.1	30.4
17.5°	29.4	30.1	30.4
20°	29.0	30.1	30.8
22.5°	28.7	30.1	30.4
25°	28.3	30.1	30.4
27.5°	27.9	29.7	30.4
30°	27.6	29.7	30.8
32.5°	26.9	29.7	30.8
35°	26.5	29.7	30.8
37.5°	26.1	29.7	31.2
40°	25.8	29.7	31.2
42.5°	25.4	29.7	31.2
45°	25.1	29.4	31.2
47.5°	24.4	29.4	31.2
50°	24.0	29.0	30.8
52.5°	23.3	28.7	30.8
55°	22.6	27.9	29.7
57.5°	21.5	26.9	28.3
60°	20.1	25.4	26.9
62.5°	18.3	23.6	24.7
65°	16.8	21.5	22.9
67.5°	14.7	19.0	20.4
70°	12.9	16.5	17.9
72.5°	11.1	14.0	15.4
75°	9.3	11.5	12.5
77.5°	7.2	9.3	10.0
80°	5.7	7.2	7.9
82.5°	3.9	5.0	5.4
85°	2.5	3.2	3.6
87.5°	1.1	1.4	1.4
90°	0.0	0.0	0.0

(END OF REPORT)