

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: P1325263

Luminaire Tested: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325263
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R50W2N902750DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

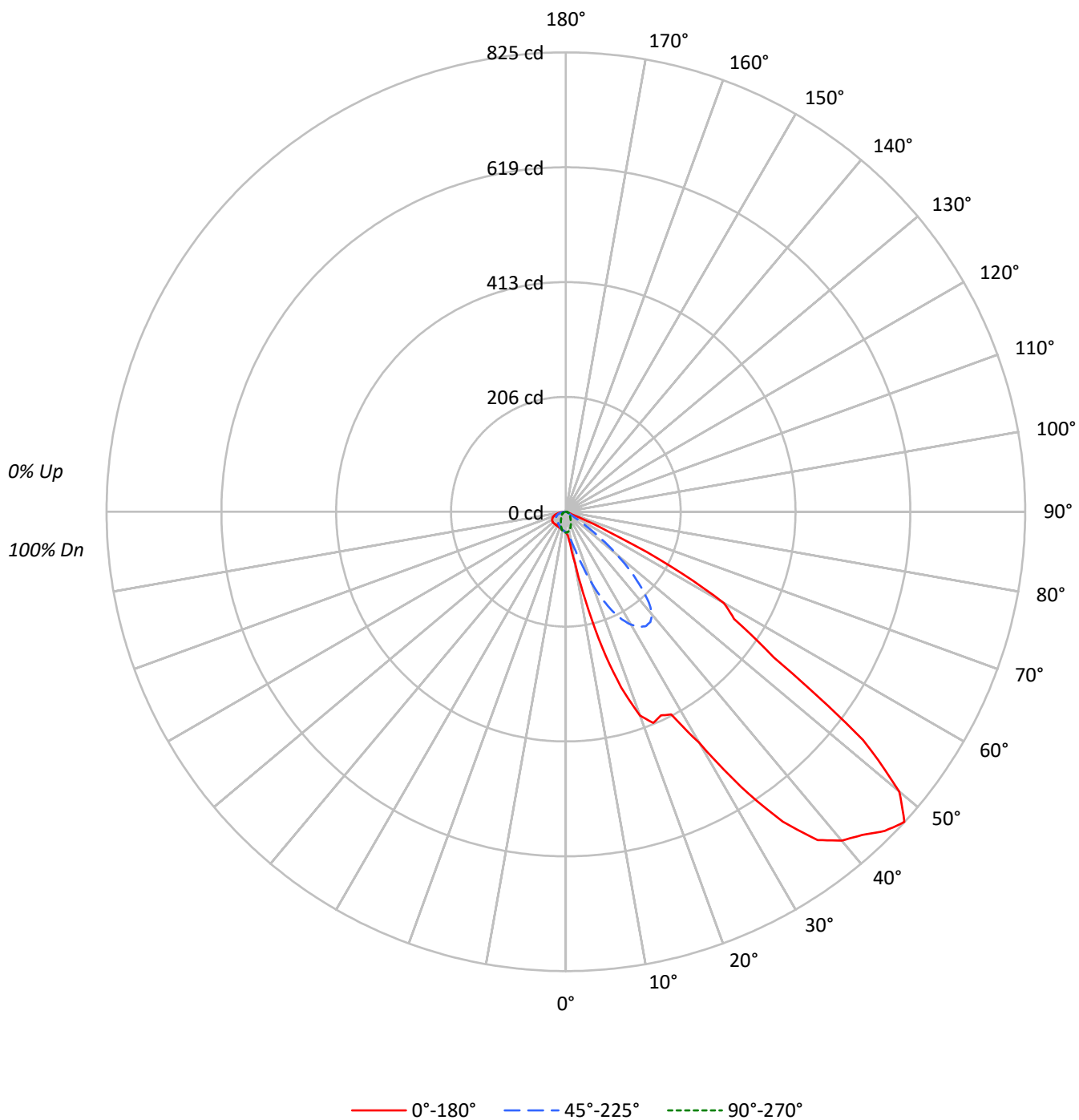
Lumens per Lamp: N/A
Luminaire Lumens: 465.0 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	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	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6372	6372	6372	6372	6372
5°	7572	7088	6310	6034	5964
10°	16299	8779	6033	5823	5893
15°	45109	14389	5438	5581	5795
20°	71331	25255	4710	5370	5663
25°	76695	37093	4048	5188	5720
30°	95217	46574	3520	5111	5906
35°	142883	52687	3049	5151	6244
40°	173269	54182	2698	5328	6587
45°	197405	46471	2630	5675	7234
50°	209522	32071	2679	6136	8065
55°	136889	12911	2642	6636	8918
60°	112875	2204	2618	7199	9817
65°	34027	1141	2445	7702	10799
70°	1410	1209	2417	7906	11733
75°	1331	1331	2396	7985	12843
80°	1190	1190	2380	7934	13191
85°	790	1581	3162	7904	12647

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 210208 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.8
10°-20°	22.0	4.7
20°-30°	56.6	12.2
30°-40°	101.7	21.9
40°-50°	135.8	29.2
50°-60°	103.4	22.2
60°-70°	31.4	6.8
70°-80°	7.5	1.6
80°-90°	2.7	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°	82.5	17.7
0°-40°	184.1	39.6
0°-60°	423.4	91.1
0°-90°	465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	465.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	44	41	36	35	34	6
15°	253	81	30	31	32	74
25°	404	195	21	27	30	193
35°	680	251	14	24	30	417
45°	810	191	11	23	30	620
55°	456	43	9	22	30	454
65°	84	3	6	19	26	116
75°	2	2	4	12	19	2
85°	0	1	2	4	6	1
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0	37.0
2.5°	39.4	39.4	39.4	39.4	39.4	39.4	39.0	39.0	39.0	38.2	37.4
5°	43.8	44.2	43.8	43.8	43.0	43.0	42.2	42.2	41.0	38.6	36.5
7.5°	57.4	57.0	56.6	55.0	53.8	51.0	49.8	47.8	44.2	38.6	35.7
10°	93.2	90.8	89.2	85.5	77.9	73.1	66.7	60.2	50.2	38.6	34.5
12.5°	161.9	161.5	156.6	144.6	133.7	118.9	103.2	87.6	61.9	37.8	32.9
15°	253.0	249.4	242.6	228.5	209.3	186.0	157.8	130.1	80.7	36.5	30.5
17.5°	331.0	326.5	321.3	307.3	285.2	255.8	222.1	184.0	106.4	34.9	28.1
20°	389.2	386.4	382.0	370.7	349.8	323.3	285.6	239.4	137.8	32.9	25.7
22.5°	410.5	410.1	410.9	406.9	396.4	375.5	339.4	291.2	168.7	30.5	23.3
25°	403.6	403.2	408.5	413.7	416.1	407.7	380.0	333.0	195.2	28.5	21.3
27.5°	410.1	408.9	406.5	407.3	414.1	418.9	406.1	365.1	218.1	25.7	19.3
30°	478.8	471.9	461.1	442.6	429.0	427.7	422.1	390.4	234.2	22.9	17.7
32.5°	586.0	577.6	557.9	523.7	491.2	466.3	448.6	411.7	245.4	20.1	15.7
35°	679.6	673.5	650.7	616.9	570.3	523.7	491.6	443.0	250.6	17.7	14.5
37.5°	743.0	740.6	718.1	682.0	634.6	579.6	537.0	475.1	249.4	14.9	13.3
40°	770.7	763.5	744.6	714.1	666.3	616.9	571.9	495.6	241.0	12.0	12.0
42.5°	787.2	779.2	758.7	729.8	682.8	630.2	575.9	486.8	220.9	9.6	11.6
45°	810.5	802.1	775.2	744.2	696.8	635.8	560.3	455.5	190.8	7.2	10.8
47.5°	824.6	818.9	798.9	767.9	710.5	627.8	524.1	426.1	157.4	5.6	10.4
50°	782.0	776.4	761.5	740.2	701.7	600.9	492.4	378.7	119.7	4.4	10.0
52.5°	673.1	678.0	680.8	686.8	658.7	540.6	445.0	341.0	80.7	3.6	9.2
55°	455.9	463.1	471.1	495.2	528.2	481.2	395.2	294.8	43.0	3.6	8.8
57.5°	358.3	355.9	353.4	351.8	377.5	396.8	347.4	235.8	18.5	3.6	8.0
60°	327.7	320.5	315.7	316.9	329.7	322.1	275.1	153.8	6.4	3.6	7.6
62.5°	214.9	220.5	231.3	249.8	241.0	206.8	159.9	61.0	3.2	3.6	6.8
65°	83.5	80.7	83.5	88.8	76.7	57.0	35.7	10.8	2.8	3.2	6.0
67.5°	11.2	10.0	7.6	4.8	4.4	4.0	3.2	2.8	2.8	3.2	5.6
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.4	2.4	2.8	4.8
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.8	4.0
75°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.4	3.6
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.6	2.4
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.2	1.6	2.0
85°	0.4	0.8	0.4	0.8	0.8	0.8	0.8	0.8	0.8	1.2	1.6
87.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.8	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):

	112.5°	135°	157.5°	180°
0°	37.0	37.0	37.0	37.0
2.5°	36.5	35.7	35.7	35.7
5°	35.7	34.9	34.9	34.5
7.5°	34.5	34.1	34.1	34.1
10°	33.7	33.3	33.7	33.7
12.5°	32.1	32.5	32.9	32.9
15°	30.5	31.3	32.1	32.5
17.5°	28.9	30.5	31.3	31.7
20°	27.3	29.3	30.5	30.9
22.5°	26.1	28.1	29.7	30.5
25°	24.5	27.3	29.3	30.1
27.5°	22.9	26.1	28.5	29.7
30°	21.7	25.7	28.5	29.7
32.5°	20.5	24.9	28.1	29.3
35°	19.7	24.5	28.1	29.7
37.5°	18.9	24.1	28.1	29.3
40°	18.5	23.7	28.1	29.3
42.5°	18.1	23.7	28.1	29.7
45°	17.3	23.3	28.1	29.7
47.5°	16.9	23.3	28.1	29.7
50°	16.5	22.9	28.1	30.1
52.5°	16.1	22.5	28.1	30.1
55°	15.3	22.1	27.7	29.7
57.5°	14.9	21.7	27.3	28.9
60°	14.1	20.9	26.5	28.5
62.5°	13.3	20.1	25.7	27.3
65°	12.0	18.9	24.5	26.5
67.5°	10.8	17.3	23.3	25.3
70°	9.6	15.7	21.7	23.3
72.5°	8.4	14.1	20.1	21.3
75°	7.2	12.0	17.7	19.3
77.5°	6.0	10.4	14.9	16.1
80°	4.4	8.0	12.0	13.3
82.5°	3.6	6.0	8.8	9.6
85°	2.4	4.0	5.6	6.4
87.5°	1.2	2.0	2.8	3.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)